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DEVELOPMENT OF AIR FORCE
FLIGHT SAFETY MODELS

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Volume 4

A-7D

AIRCRAFT

October 1975

Prepared for

SERVICE ENGINEERING DIVISION
SAN ANTONIO AIR LOGISTICS CENTER
Kelly Air Force Base, Texas

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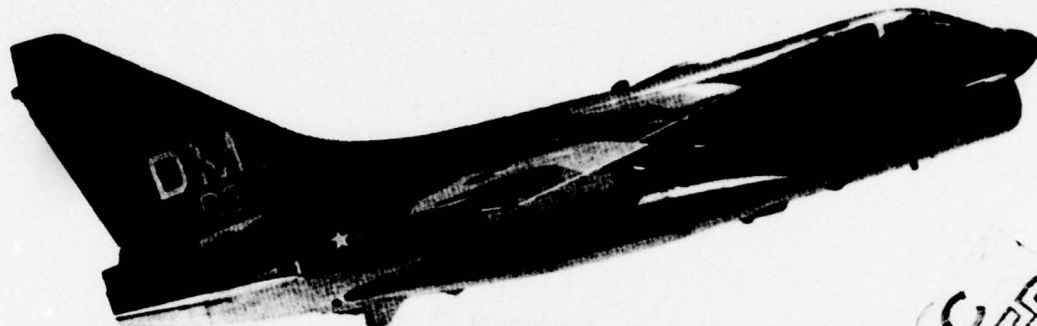
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A general description of the Flight Safety Prediction Technique and the documentation associated with its specific application to the A-10 aircraft are presented.

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ABSTRACT

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A general description of the Flight Safety Prediction Technique, and the documentation associated with its specific application to the A-7D aircraft, are presented.

ABSTRACT

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GLOSSARY

This glossary presents general definitions of terms used in this report. The reader will find certain of these terms defined in somewhat different words in the text, depending on the context of the discussion; but the meaning will be consistent with the definitions given here.

- | | |
|---------------------|--|
| Criticality | - A numerical index of the significance of equipment failure history relative to aircraft safety. As an analysis parameter, it can be considered proportional to the likelihood that an item will fail and thereby cause an accident. It is the product of the failure probability and the sensitivity of an equipment item. |
| Dependency | - See link dependency. |
| FSPT | - Flight Safety Prediction Technique |
| Flight Phases | - Discrete segments of the aircraft mission profile. For present purposes, the flight phases are defined as 1) startup and taxi, 2) takeoff, 3) climb, 4) cruise, 5) tactics, 6) cruise, 7) descend, 8) land, and 9) taxi and shutdown. |
| Functional Analysis | - The determination of equipment relationships to aircraft functions performed, and the interrelationships of these functions. |
| Functional Link | - The simplest form of functional relationship in which one function is dependent upon the next lower function. |
| Functional Path | - The compilation of functional links, in sequence, through which a function is identified as being dependent upon another. |
| Link Dependency | - The conditional probability of a dependent function failing, given that a particular function it is dependent upon has failed. |
| Provisory Condition | - Operation of an aircraft in a mode or environment such that the safety-related importance of certain equipments is increased. Provisory conditions include icing, night flight, supersonic flight, etc. |
| Provisory Factor | - The probability that a provisory condition exists. Also used to describe the coded notation used to indicate that a functional relationship is dependent on a particular provisory condition. |
| Safety Sensitivity | - Same as "sensitivity". |

Sensitivity

- A quantitative indication of the degree of safety degradation to be expected if a function or piece of equipment fails. The more specific terms are "functional sensitivity" or "equipment item sensitivity".

Sensitivity Path

- A particular sequence of functional dependencies (beginning at the top level in the hierarchical structure) through which a function or piece of equipment derives a sensitivity value. Equipment and functional sensitivity values are often derived through several such sensitivity paths.

FOREWORD

This document is part of a 16-volume report describing the application to specific aircraft types of ARINC Research Corporation's Flight Safety Prediction Technique (FSPT). The technique was developed under previous Air Force contracts (see Appendix A). The present effort, undertaken in 1972 under Contract F09603-72-A-1132-SA01, has led to further refinement of the FSPT through its broad application to many different types of aircraft. The flight safety models generated for these aircraft are presented in individual volumes of this report as follows:

<u>Volume</u>	<u>Aircraft</u>	<u>Volume</u>	<u>Aircraft</u>
2	T-38	10	B-52G, H
3	F-111A, FB-111A	11	C-130E
4	A-7D	12	KC-135
5	F-4D, E; and RF-4C	13	C-5A
6	C-141	14	T-39
7	A-37	15	F-15
8	O-2	16	UH-1N Helicopter
9	OV-10		

Volume 16 will document the results of a feasibility study of extending the FSPT to rotary-wing aircraft.

Volume 1, an overall summary of the contractual effort, will be issued at the end of the contract period.

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INTRODUCTION

The Flight Safety Prediction Technique developed by ARINC Research Corporation provides for assessment of the impact on flight safety of the failure of specific items of equipment within an aircraft. In the FSPT, mathematical modeling procedures are applied for processing aircraft-equipment failure data to yield a quantified index ranking safety-related problems on the basis of their likelihood of occurrence and the resulting degradation in the aircraft's capability to fly.

The ranking factor is called "criticality", which in its simplest form is the product of the failure probability and flight-safety sensitivity of an equipment. (A more detailed definition appears in Section 2 and Appendix B.) The failure probability inputs are from basic failure-data sources, AFM 66-1 and 65-110. The sensitivity estimates are derived by the following process:

- a. Systematic analysis of aircraft functions to determine those essential to flight safety
- b. Identification of the hardware required to perform these functions
- c. Evaluation of the safety significance of the hardware in performing these essential aircraft functions.

The criticality values resulting from this approach provide a relative ranking of all malfunctions with respect to their safety significance. Figure 1-1 is a simplified example of how three equipment items would be ranked on the combined basis of their failure probability and safety sensitivity. This figure illustrates an example in which item A has the highest failure probability, but due to the low sensitivity value is ranked below item B in criticality.

The methodology has the ability to rank malfunction problems currently and continuously by their accident potential. This ranking, based on criticality assessment, can provide the basic parameters necessary for:

- a. Identifying equipment items whose failure history and application pose a threat to aircraft safety
- b. Quantifying the degree of threat associated with each equipment item
- c. Evaluating and tracking the effectiveness of modifications to the aircraft
- d. Assessing safety benefits versus the cost of proposed aircraft modifications, changes in maintenance or flight operations, or alternative aircraft designs.

In this report, Section 4 and Appendix D pertain specifically to the A-7D aircraft. The remainder of the document provides support information that will make the A-7D data, and the method by which the data were obtained, more meaningful to the general reader.

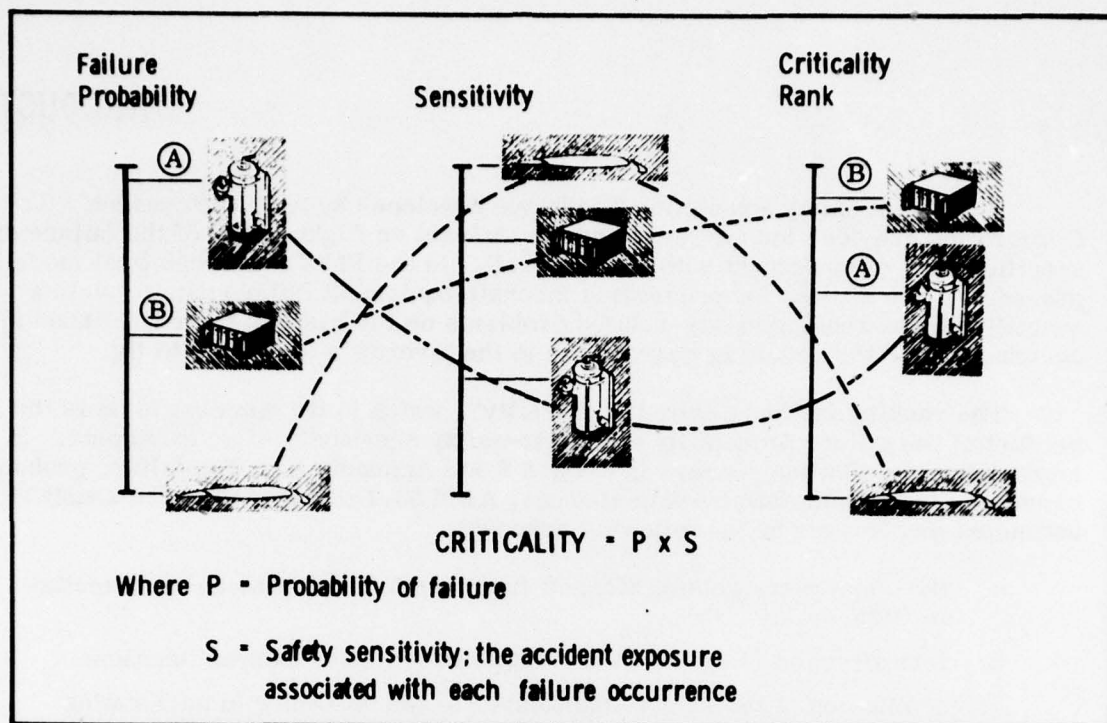


Figure 1-1. Example of Criticality Ranking Process

Section 2 presents an overview of the development and utilization of the Flight Safety Prediction Technique; Section 3 discusses the steps associated with generating a safety model for calculating the safety criticality of various equipments of an aircraft; and Section 4 describes how the safety model for the A-7D aircraft was developed. Appendix A summarizes the contractual history of the development of the FSPT; Appendix B discusses mathematical considerations underlying the technique; Appendix C discusses FSPT documentation methods; and Appendix D presents functional relationship diagrams and a listing of keypunch cards that comprise the safety model documentation for the A-7D aircraft.

METHODOLOGY UNDERLYING FSPT

This section discusses the basic definitions and mathematical concepts associated with the Flight Safety Prediction Technique.

2.1 DEFINITION OF SAFE AIRCRAFT

To develop a relative measure of aircraft safety degradation resulting from specific equipment malfunctions, it is first necessary to define a "safe" aircraft. For purposes of the FSPT assessments, an aircraft is assumed to be in a safe condition if it is operating within its prescribed performance limits. Conversely, an aircraft operating (or about to operate) outside these limits is considered to be unsafe - in a condition where property damage and personal injury may result.

The safety prediction methodology does not attempt to assess the extent of possible personal injury or aircraft damage resulting from an unsafe condition. Neither does the concept consider ejection capability, parachutes, life rafts, etc., which do not make an aircraft safer per se but provide for the survivability of the aircrew when the aircraft is unsafe. Collision is also excluded from consideration because of the complexity of the interrelationships between pilot, aircraft equipment, ground surveillance, and traffic density.

2.2 MATHEMATICAL BASIS OF FSPT

The probability of an accident caused by the failure of an element can be expressed as the probability of the element failing multiplied by the conditional probability that the failure of the element will cause an accident. Stated in equation form:

$$P(A, j) = P(j)P(A|j) \quad (1)$$

where

$P(A, j)$ = Probability of an accident due to failure of just the j^{th} element*

$P(j)$ = Probability that element j fails

$P(A|j)$ = Probability of an accident given that the j^{th} element fails.

This equation reflects the basic relationships addressed in the FSPT where:

a. The criticality of the j^{th} element is an estimate of $P(A, j)$

b. The sensitivity of the j^{th} element is an estimate of $P(A|j)$

*In this and subsequent discussions, unless otherwise stated, expressions such as "failure of the j^{th} element" should be interpreted to mean: failure of only the j^{th} element, assuming all other elements are not failed.

Because an element's effect on safety may depend on the mission phase (see Section 3.2.1), the above model can be expanded to:

$$P(A, j) = \sum_{k=1}^N P_{j,k} P(A|j, k) \quad (2)$$

where

N = Number of mission phases

$P_{j,k}$ = Probability that the j^{th} element is failed in the k^{th} phase

$P(A|j, k)$ = The j^{th} element's sensitivity in the k^{th} phase.

To identify the importance of discrete elements to aircraft safety, a flight profile consisting of nine distinct phases was defined. The phases are discussed in Section 3.2.1.

To utilize equation 2, it was necessary to develop a method for obtaining the values of $P(A|j, k)$, the probability that a malfunction in element j during mission phase k will result in an accident. This method in turn requires the estimation of two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on subfunctions and elements during each such phase*. Each function and equipment item thus derives its sensitivity value from its relationship to the major function(s) dependent upon it.

2.3 SENSITIVITY ASSIGNMENTS

A great deal of information is available on the causes of aircraft accidents, but little exists from which to make the sensitivity assignments $[P(A|j)]$. These assignments are therefore largely subjective, based on the analyst's knowledge of the system and any information he may have on previous accident history. The sensitivity assignments are reviewed (and revised as necessary) by an Air Force/contractor team working on a particular model to ensure that consistent criteria have been followed. The team review and negotiation of sensitivity assignments is the mechanism by which the value becomes sufficiently objective for use with the model. This negotiation considers all of those top level functions as a group and reassigns sensitivity values as necessary to assure that the most objective proportionality is attained for the particular aircraft model. The same major-function sensitivity values are used for major functions on all aircraft models where configuration and mission profiles permit.

The development of criticality rankings for the various elements (j 's) is dependent upon the ability to quantify the failure probability $[P(j)]$ and the element sensitivity $[P(A|j)]$ for each element. Since the intent of the concept is to provide a relative safety ranking of all malfunctions, it is not necessary to develop absolute

*For a more detailed discussion of the mathematics of the FSPT, see Appendix B.

values for $P(A|j)$. If the sensitivity values developed are correct relative to each other, a proper criticality ranking will be established. It is intended that criticality be an index proportional to $P(A, j)$ and therefore provide the same relative rank ordering of elements. The major reasons for proportionality, rather than equality, are:

- a. The FSPT does not account for the effect of extraordinary pilot intervention to prevent an accident in case of equipment malfunction.
- b. Criticality quantification was limited in its treatment of simultaneous occurrence of independent, primary failures.
- c. Operational and malfunction data yield only a proportional estimate of the required information.

While strict proportionality cannot be mathematically proven, it is believed that the criticality rankings provide reasonable relative measures of equipment problem potential.

Figure 3-1 summarizes the approach to the assessment of flight-safety criticality of aircraft equipment. The first contractor activity is the identification of all functions the aircraft is expected to perform and the determination of their inter-relationships. Next, each functional relationship is documented; and then sensitivity assignments are made at the major functional levels (below these levels, link dependency values are estimated; see discussion, Section 3.2.2). This process is carried out until each work unit code associated with a major function has been identified with respect to the function performed and dependencies have been estimated. Computer processing calculates the safety sensitivity for each work unit coded item, combines these values with the operation and failure data input by the Air Force, and produces the equipment criticality ranking.

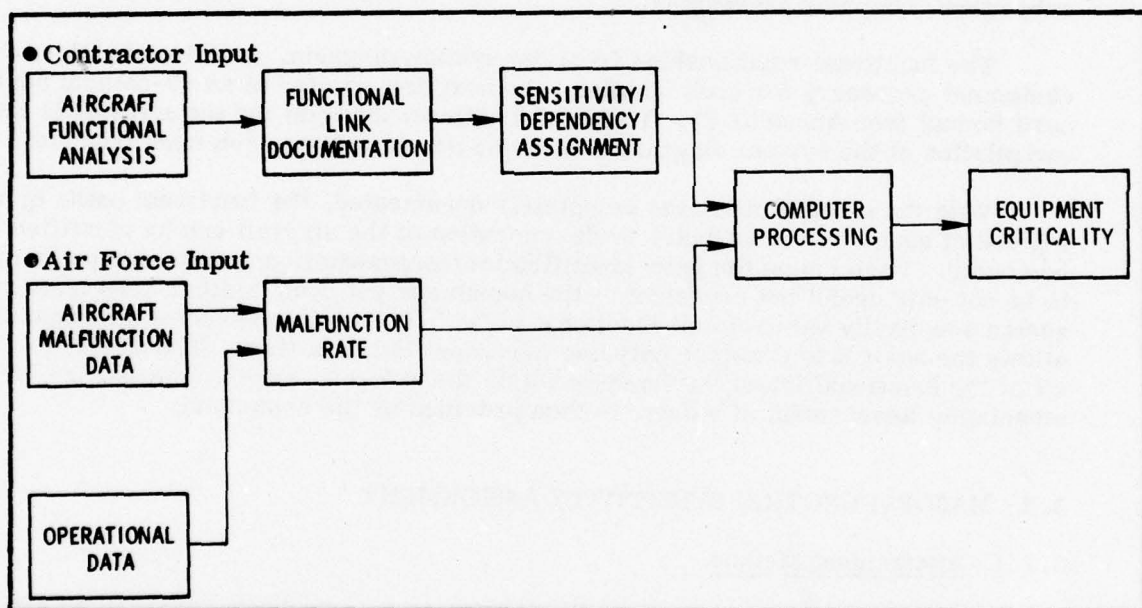


Figure 3-1. Activities and Data Inputs to Flight Safety Criticality Assessment

The steps in this process are discussed in greater detail in the following sections.

3.1 FUNCTIONAL ANALYSIS

Functional analysis entails the systematic identification of the relationships of hardware to the functions performed by the aircraft and documented in the aircraft technical orders. Tabulated for each aircraft function are the equipments necessary for its performance as well as all outputs required for other systems. The complexity of the functional interdependencies of an aircraft requires the use of a systematic

accounting procedure, as discussed below, to assure that all relationships have been identified and that no functional paths have been overlooked.

Certain top-level functions (comprised of both "primary" and "major" functions) have been defined as applicable to all aircraft types, and serve as the starting point for a safety analysis. Figure 3-2 lists these top level functions with the primary function of Flight Control expanded to show its typical major functions. Below the major function level, differences in aircraft types result in function identification and structuring specifically suited to each aircraft. In Figure 3-2, for instance, the major function Roll Control is subdivided into Left Roll and Right Roll, and further into aileron and spoiler actuation subfunctions. This structure is that applicable to an F-4 aircraft, in which ailerons have an extremely limited upward travel and lift is primarily lost through spoiler operation. Finally, each item in the aircraft WUC ("-06") manual is identified with respect to the function it performs.*

Every function and every WUC included in the model receives an "alpha designator" unique to that aircraft model. Due to the large number of alpha designators required in a model, an indenturing system is utilized to prevent duplication. However, the location in the hierarchal structure and the number of characters in the alpha designators are often independent, since such correlation is not necessary for subsequent computer processing.

The functional relationships from the system diagram, and identification of the equipment necessary for each function, are next documented in an 80-column punch-card format (see Appendix C). The total functional diagram for the aircraft is then a compilation of the system diagrams, with one punchcard for each functional link.

With the aircraft functions completely documented, the functional paths by which a piece of equipment contributes to the operation of the aircraft can be identified by computer. Performing the path-identification/documentation task by computer proves to be not only useful but necessary - the human analyst could neither keep track of nor assign sensitivity values to all functional paths. The machine processing capability allows the analyst to consider only one functional link at a time. The ability to follow all of the functional interrelationships within the aircraft, which is necessary for meaningful assessment of safety, is then provided by the computer.

3.2 MAJOR-FUNCTION SENSITIVITY ASSIGNMENT

3.2.1 Assignment Method

As stated earlier, the sensitivity of a function or equipment item is an estimate of the probability that its failure will cause an accident. From functional analysis of the aircraft under consideration, major functions are identified and are assigned sensitivity values for each phase of the mission.

*Certain WUC items in the "-06" manual may not be included in the safety model, these items being either 1) eliminated by TCTOs; 2) purely structural items in the 11000 series; 3) necessary only for survivability or ejection; 4) of lower indenture than the LRU level, where computer data screening eliminates failure reports.

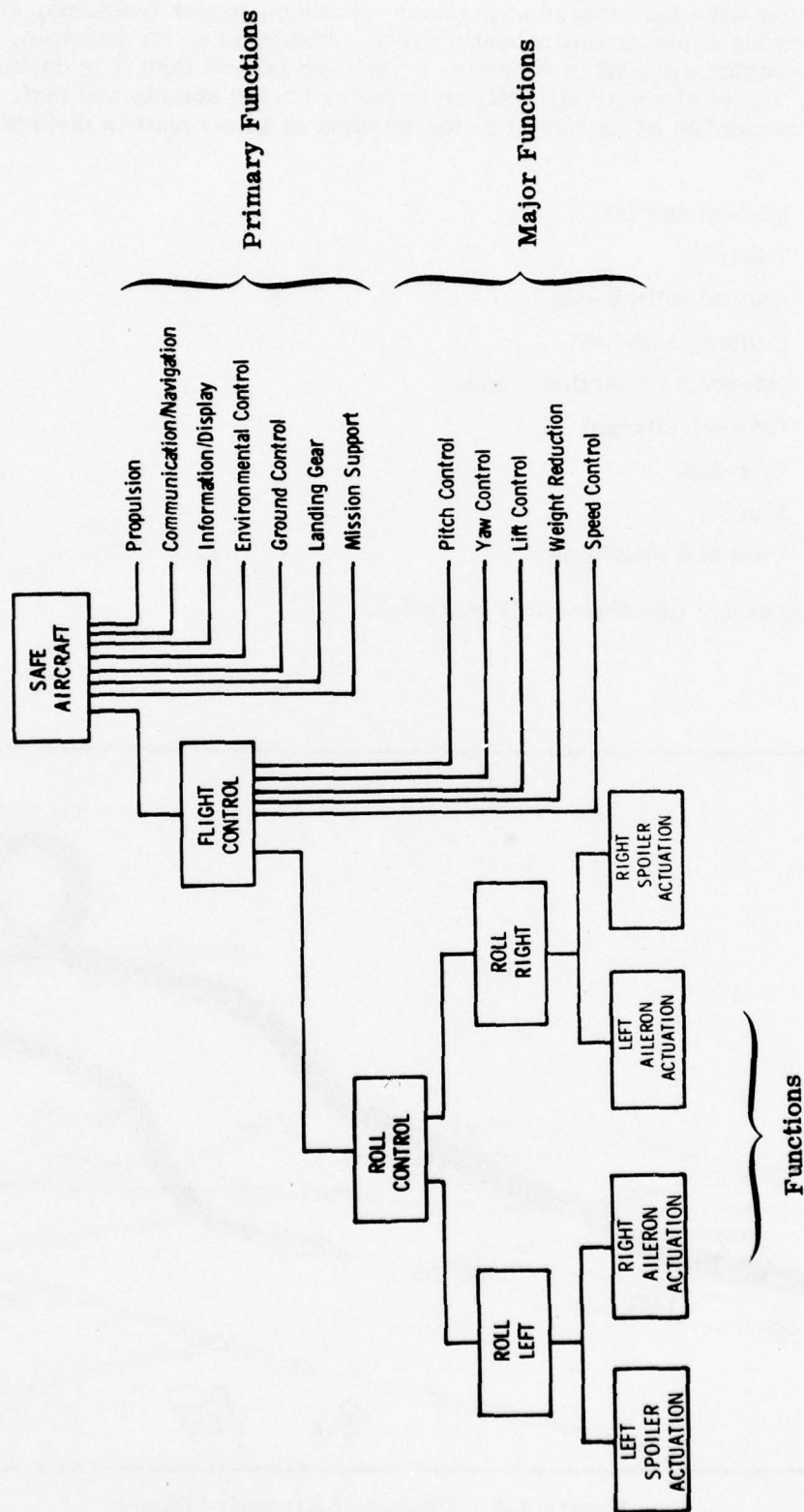


Figure 3-2. Hierarchical Structure of Aircraft Functions

The relative importance of primary functions, major functions, and functions is not necessarily constant throughout a flight. The failure, for example, of one engine of a multi-engine aircraft is far more critical on takeoff than it is during the rest of the flight, and is of relatively little importance during startup and taxi. To accommodate this variability of importance, the mission of an aircraft is divided into nine flight phases:

1. Startup and taxi
2. Takeoff
3. Ascend (climb-out)
4. Cruise, outbound
5. Intercept or tactical phase
6. Cruise, inbound
7. Descend
8. Land
9. Taxi and shutdown

These phases are illustrated in Figure 3-3.

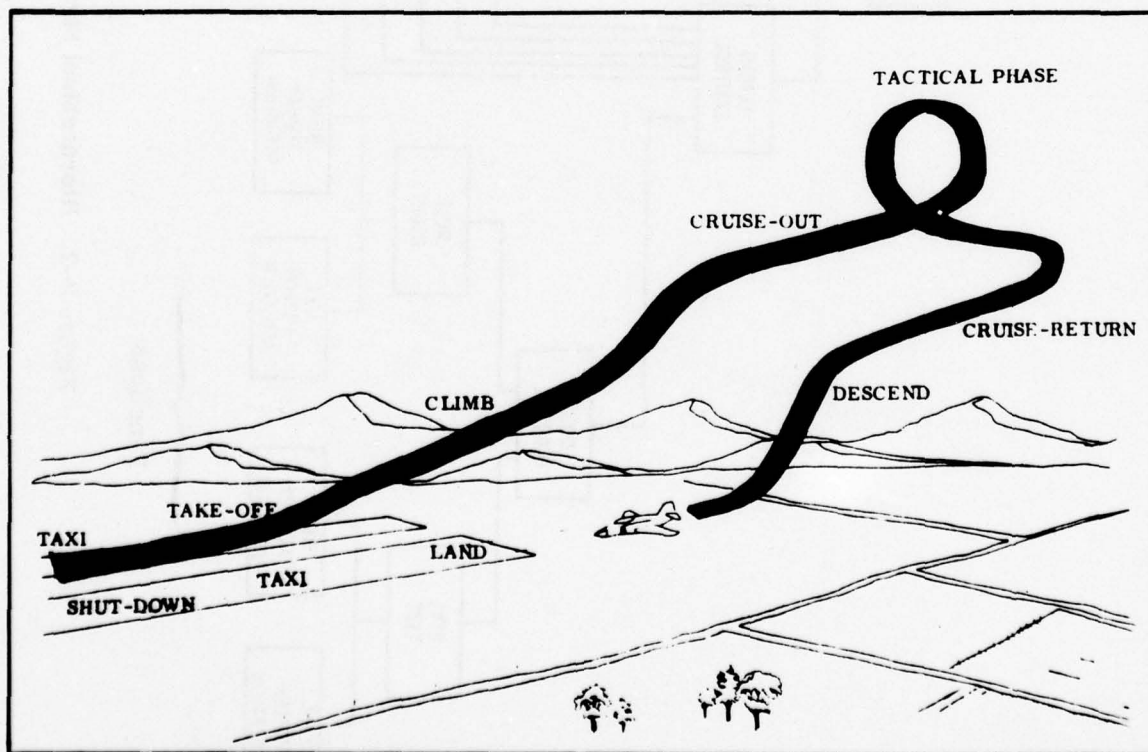


Figure 3-3. Phases of Aircraft Mission

A sensitivity value is assigned for each of the phases, and represents the best estimate of the likelihood that the aircraft will enter a hazardous mode if the function is not present in that phase. The numerical values assigned are proportional rather than absolute, and range from 0.0 to 1.0. The keypunch card format limits this assignment to increments of 0.1. Increments smaller than 0.1, when required, were assigned by defining a quasi-function for insertion between the major function and its dependent primary function.

3.2.2 Link Dependency Assignment

"Link dependency" is defined as the probability that the loss of a function will result in the loss of a dependent function. (For a more detailed discussion of this term, see Appendix B.) The assignment of link dependency values requires knowledge of the operation of specific aircraft because it is concerned only with functional levels below the "major" category. At this lower level, no evaluation is made of the impact on flight safety of the loss of functions. Instead, the effect of the loss of one function on the performance of another function becomes the evaluation criterion. Like sensitivities, link dependency values are assigned in increments of 0.1. Additionally, the method of attenuation used in assigning sensitivity values can also be applied to link dependencies.

3.2.3 Provisory Factors

The sensitivity of major functions with respect to aircraft safety, and at the lower levels the link dependency between functions, can be dependent on external influences and aircraft operating conditions. To accommodate these external influences, a set of provisory factors has been identified. An example would be a windshield anti-ice system, which has a safety sensitivity close to 1.0 during landing under icing conditions but a negligible effect on a dry, warm day.

Under such circumstances, the procedure is to assign the "worst case" value (assuming the condition exists). During model exercise the likelihood that the condition exists can be "read-in", thereby allowing the sensitivity value to be assigned by the computer based on the likelihood of the condition and the probability that the higher level function will therefore be lost. Table 3-1 lists the standard provisory factors used in FSPT models.

3.2.4 Computer Processing

Documentation of a flight safety analysis by ARINC Research thus consists of functional diagrams, coded functional tabulations, a functional data processing card deck, and a machine-prepared printout of the card deck data. Under this contract, the documentation is then sent to San Antonio Air Logistics Center for review by MMER personnel and representatives of the Air Logistics Center responsible for the particular aircraft (if other than SA/ALC).

SA/ALC processes the functional data card deck utilizing a number of computerized operations. First, a functional deck edit is accomplished to identify certain format or logic errors that may exist. Next, a path identification/documentation run is made that traces all possible paths associated with each function and calculates the numerical sensitivities by flight phase down to the WUC level. Then, a path combination run is made taking into account the dependence of more than one major function on a particular WUC. Finally, failure information from the 66-1 data system and numerical factors for provisory conditions are input and a WUC criticality list by rank order is generated by the computer.

TABLE 3-1. PROVISORY FACTOR CODES

Code	Provisory Condition
A	Icing conditions
B	Adverse speed/altitude operations
C	Runway stopping distance/confined area (Helicopter)
D	Night operation
E	IFR conditions
F	Supersonic flight
G	Rain
H	Solo flight
I	Loss of function for which indication is provided
K	Normal system failed
T	Flame-out
X	Fire
Y	Cold weather
2	One of three available units is required
3	Two of three available units are required
4	One of four available units is required
5	Two of four available units are required
6	Three of four available units are required
8	Four of eight available units are required

An additional product generated by the computer is a two-part criticality trend analysis. Part I contains the criticality rankings and linear regression analysis by WUC for the previous 12 months. Part II contains plots of the criticalities and regression lines for the 25 WUCs top-ranked according to safety criticality.

3.2.5 Model Maintenance

Each time an aircraft type for which a safety model has been developed undergoes a modification, the effects of the changes on the model must be evaluated. Technical order and WUC revisions must be incorporated into the model. Removal of existing hardware, the installation of new hardware, or design improvements may change link dependencies and sensitivity assignments. The update procedure should follow the same general steps as outlined for the initial analysis effort.

Existing block diagrams and a printout of the functional card deck form the baseline for change identification. Functional relationships should be reviewed to determine the impact of changes on the documented safety analysis. Diagrams should be revised to reflect functional differences, WUC changes should be noted, and all differences listed on a flight-safety functional tabulation sheet. The functional deck printout can be used for manual indication of what the changes are and where they occur. New data cards are prepared and the functional deck updated by the removal of obsolete cards and the insertion of new cards. From this point on, the computer is again utilized to edit the functional deck, perform path identification/documentation, and calculate sensitivities for each WUC.

Block diagrams and other affected portions of the specific aircraft safety analysis report should be updated and revised pages issued that reflect these changes. Maintaining an accurate and updated model is important to obtaining an accurate assessment of the safety significance of hardware failures.

A-7D MODEL DEVELOPMENT

The FSPT model for the A-7D aircraft was developed over a period of approximately two years, March 1973 to February 1975.

In March 1973, a seminar was conducted at the Oklahoma Air Logistics Center (OC/ALC) by representatives of SA/ALC and ARINC Research to familiarize OC/ALC personnel with modeling requirements and techniques for their participation in the A-7D and B-52 modeling efforts. Model development was initiated in April 1973 and completed in September of that year. Model documentation, including the systems completed in accordance with the contract modification (June 1973), were submitted for computer edit at SA/ALC in September 1973.

Subsequently, the Work Unit Code Manual for the A-7D was extensively revised in the propulsion section (23000 series). These changes made a large part of the completed work obsolete. To remedy this situation, the propulsion system of the model was revised and forwarded to SA/ALC in February 1975.

The aircraft flight manual and maintenance technical orders provided the information on aircraft system operation. The model developed represents the A-7D aircraft configured to the latest time compliance technical orders (TCTOs) documented in the manuals supplied by SA/ALC. Table 4-1 lists the manuals and their revision status applicable to the developed model.

The A-7D safety model was developed by ARINC Research for all systems except the landing gear. The landing gear diagram and functional documentation cards were produced by MMER/OC/ALC, and interface documentation for the landing gear was a joint effort by OC/ALC and ARINC Research.

Because of the vulnerability of the functional logic/sensitivity documentation to such errors as omission of links, duplication of cards, and keypunching, quality reviews were conducted at various critical points in the model development. In addition to keypunch verification, each card was checked against the functional link shown on the original rough draft and the final functional diagram and the diagrammed link was checked off. Missing or duplicated functional links were thus identified. Work unit codes used in the model were checked off against the WUC manual to assure completeness.

The quality reviews were first conducted by the organizations responsible for the subsystems prior to merging and computer verification of the respective aircraft decks by SA/ALC. Following the merging of the Air Force/ARINC Research decks and computer verification at SA/ALC, a second quality review was performed by representatives of ARINC Research and OC/ALC. Finally, the first criticality print-out obtained from application of actual aircraft data was reviewed to identify any items whose sensitivity appeared to be unreasonable. In such cases the paths were traced manually and changes made if an erroneous relationship was found.

Appendix C presents the methods and standards used in documenting an FSPT aircraft model. Appendix D presents the FSPT documentation for the A-7D aircraft, which covers both the OC/ALC and ARINC Research portion of the model.

TABLE 4-1. A-7D SYSTEM DOCUMENTATION

Publication No.	Title	Revision/Date
1A-7D-1	Flight Manual	Change 5, 20 Sept 1972
1A-7D-2-1	General Information and Airframe Group	Change 8, 15 Feb 1972
1A-7D-2-2	Egress and Survival Systems	Change 4, 1 Apr 1972
1A-7D-2-3	Mechanical Accessories Systems	Basic, 15 July 1972
1A-7D-2-4	Pneudraulic Systems	Change 5, 1 May 1972
1A-7D-2-5	Powerplant Systems	Change 5, 1 Feb 1972
1A-7D-2-6	Fuel System	Change 10, 1 Jan 1973
1A-7D-2-7	Landing Gear Systems	Change 7, 1 June 1972
1A-7D-2-8	Flight Control Systems	Change 5, 1 April 1972
1A-7D-2-9	Automatic Flight Control System	Change 2, 1 Dec 1971
1A-7D-2-10	Instrument Systems	Change 7, 15 Apr 1972
1A-7D-2-11	Electrical Power and Lighting Systems	Change 7, 15 Apr 1972
1A-7D-2-12	Radio Communication and Navigation Systems	Change 7, 1 June 1972
1A-7D-2-13	Armament Systems	Change 7, 15 July 1972
1A-7D-2-14	Weapon Control Systems	Basic, 15 Nov 1970
1A-7D-2-18	Integrated Avionic Systems	Change 4, 16 June 1972
1A-7D-06	Work Unit Code Manual	Basic, 15 May 1972 (plus Change 6 to 23000 Series)

APPENDIX A
HISTORICAL SUMMARY OF FSPT

HISTORICAL SUMMARY OF FSPT

In 1965, the desirability and practicability of quantifying the significance of specific equipment malfunctions relative to flight safety was explored in a feasibility study conducted by ARINC Research Corporation for the Air Force. The feasibility of a safety-quantification approach, which has subsequently become known as Flight Safety Prediction Technique (FSPT), was demonstrated; and the method was developed and refined in a series of studies, as follows:

<u>Study Phase</u>	<u>Subject/Date</u>	<u>Sponsor*/Publication No.</u>
I	Feasibility Study, September 1965 to June 1967 (Phase I)	Sacramento Air Materiel Area (SMNE), Contract AF09(603)62335, SM-67-2; publication 705-01-1-777
II-A	Technique Development, October 1967 to July 1968 (Phase II-A)	San Antonio Air Materiel Area (SANEW), Contract AF09(603)-67-A-0267-SA01; publication 734-01-1-895
II-B	Technique Development, July 1968 to July 1969 (Phase II-B)	San Antonio Air Materiel Area (SANEW), Contract F09(603)-68-A-0317-SA01; publication 754-01-1-985 (Revision 1)
	FSPT System Documentation for the F-4C and T-37 Aircraft, October 1970 to June 1971	San Antonio Air Materiel Area (MMER) Contract F41608-71-C-0576; publication 697-01-1-1118

In the Phase II-B study, the FSPT was applied to the F-106 aircraft. Concurrent with Phase II-B, the U.S. Naval Safety Center contracted ARINC Research to extend the methodology to produce a flight safety criticality model for the F-4J aircraft. The results of this effort are documented in ARINC Research Publication 753-01-3-982 (Revision 1).

In 1970, ARINC Research was contracted to develop suitable input data to permit the application of the technique to the T-37 and F-4C aircraft. These data were derived in the form of mathematical model functional documentation as input to the basic computer program developed and applied to the F-106.

In 1972, ARINC Research Corporation was awarded a contract, with the subsequent modifications in 1973 and 1974, to apply the Flight Safety Prediction Technique to 15 aircraft, working jointly with cognizant Air Logistics Centers. Aircraft to which the FSPT has been applied under this latter contract (F09603-72-A-1132-SA01) include:

- a. T-38
- b. F-111A and FB-111A

*The office symbols of Service Engineering at the Sacramento and San Antonio Air Materiel Areas are now SM/ALC/MME and SA/ALC/MME, respectively.

- c. A-7D
- d. F-4D, E; RF-4C
- e. C-141
- f. A-37
- g. O-2
- h. OV-10
- i. B-52G, H
- j. C-130E
- k. KC-135
- l. C-5A
- m. T-39
- n. F-15
- o. UH-1N Helicopter*

*Feasibility study of adaptation of FSPT to rotary-wing aircraft.

APPENDIX B
FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

To implement the basic safety model defined in Section 2.2, it is necessary to develop a submodel for the probability that a malfunction in element j during mission phase k will result in an accident. This submodel in turn requires that we estimate two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on element j during each mission phase.

The first parameter is termed "functional sensitivity" and is estimated for each major function. The functional analysis performed in this task established for an aircraft the following hierarchal scheme:

Aircraft

Primary functions

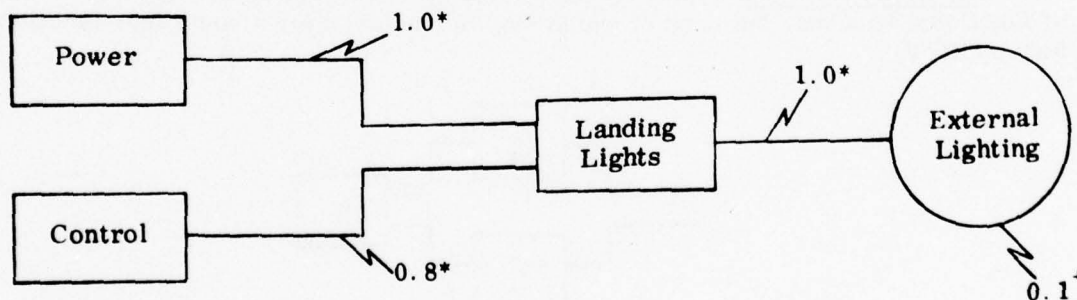
Major functions

Function

Elements (Work Unit Codes)

A primary function would be one such as Flight Control. Major functions under Flight Control would include Pitch Control and Yaw Control.

The second parameter, "link dependency," is a vehicle for showing the influence of each functional-path element on the performance of a major function. For example, if the major function being considered is External Lighting, the following diagram illustrates the nature of functional sensitivity and link dependency values.



*Link dependencies

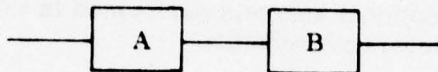
+Functional sensitivity

The 0.8 value means that failure of the Control function will result in loss of the Landing Light function 80% of the time. The 0.1 functional sensitivity value denotes that loss of external lighting will result in an accident 10% of the time. The values must be interpreted in a proportional sense, in that the actual accident probability is dependent upon external factors (see Section 3.2.3).

The remainder of this appendix discusses the procedures and model used to obtain element sensitivities; e.g., in the above example, the accident probability given that a Work Unit Code in the Control function malfunctions.

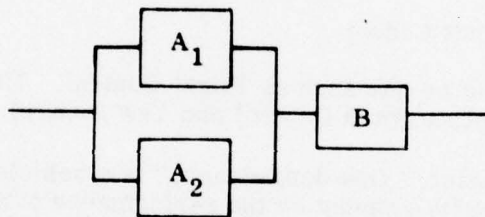
Three principal types of functional relationship--series, redundant, and parallel--were identified as representing the major forms to consider in modeling element sensitivity.

Series Relationship -- A function having only one input. Schematically,



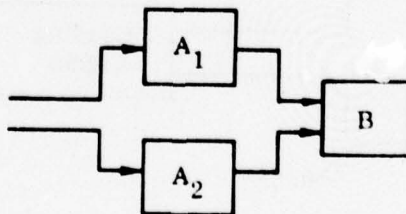
which indicates that outside of its own elements, the success of function B is only affected by the success of function A.

Functional Redundancy -- A function having one or more backup functions that can provide the required inputs to successor functions. Schematically,



where A_1 and A_2 represent a functional redundancy in that either may provide the necessary input to B.

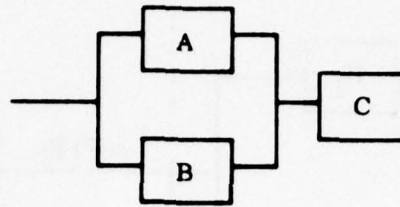
Parallel Functions -- Two or more functions independent of each other in terms of functional success, but each of which may be required for a successor function. Schematically,



B will generally require both A_1 and A_2 ; but A_1 does not depend on A_2 , nor does A_2 depend on A_1 .

In some cases the distinction between functional redundancy and parallel paths is very slight, and may depend on mission phase. For example the four engines of a plane can be considered to be a redundant configuration providing inputs to the primary propulsion function during cruising, but would generally be considered to be parallel functions during takeoffs requiring full power.

In general, given a schematic relationship of the form,

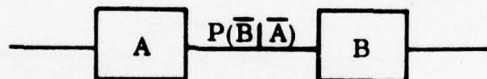


we can say that A and B are in a functionally redundant configuration if the success probability of C is the same if 1) A and B are successful, 2) A only is successful, or 3) B only is successful. If, for example, C is more likely to be successful if both A and B are successful, rather than A or B alone, then the relationship is one of parallel paths.

It is noted that the model will also account for element redundancy and parallel elements through inputs such as $P(\bar{A}|i_a)$, representing the probability that the Ath function fails given that the i_a^{th} element in A has failed. If i_a is a parallel element, the probability would depend on mission requirements and other parallel-element states.

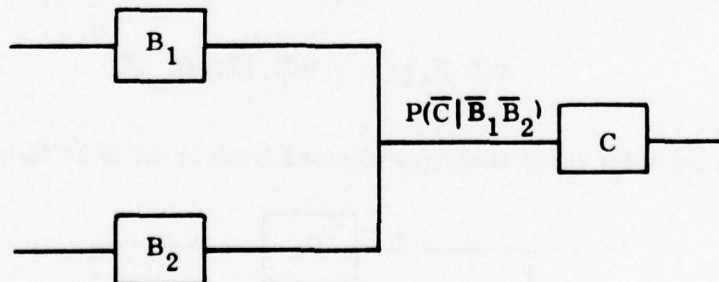
Link dependency is the conditional probability of a functional failure, given the failure of immediate predecessor functions. The link dependencies applicable to the three basic designs defined above are shown below.

Series Relationship

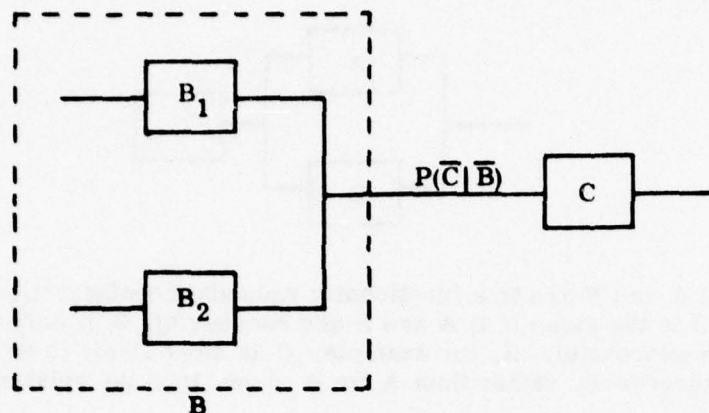


Link dependency = $P(\bar{B}|\bar{A})$ = probability that B fails given that A fails.

Functional Redundancy

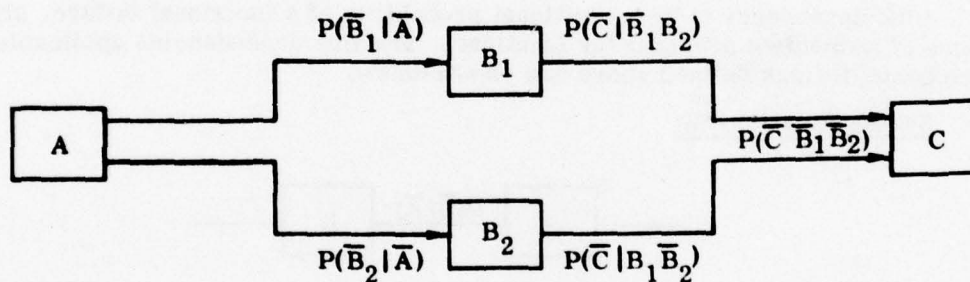


equivalent to



where $\bar{B} = \bar{B}_1 \bar{B}_2$

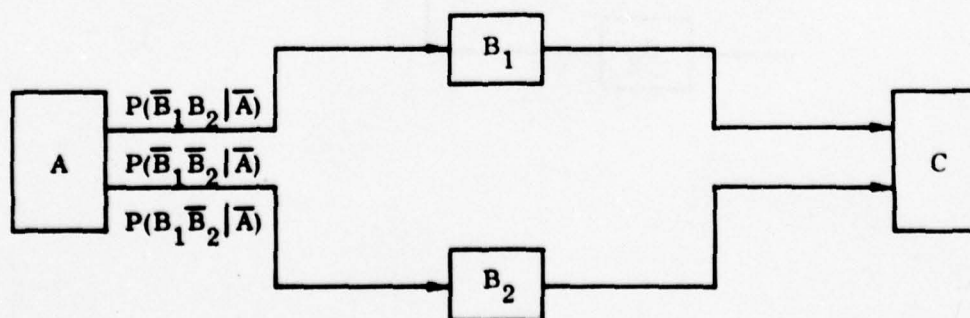
Parallel Functions



We shall generally assume that the dependencies of B_1 with respect to A , and of B_2 with respect to A , are independent of each other, so that

$$P(\bar{B}_1 \bar{B}_2 | \bar{A}) = P(\bar{B}_1 | \bar{A}) P(\bar{B}_2 | \bar{A})$$

We then can consider three link dependencies from A to B as follows:



noting that

$$P(\bar{B}_1|\bar{A}) = P(\bar{B}_1 B_2|\bar{A}) + P(\bar{B}_1 \bar{B}_2|\bar{A})$$

$$P(\bar{B}_2|\bar{A}) = P(B_1 \bar{B}_2|\bar{A}) + P(\bar{B}_1 \bar{B}_2|\bar{A})$$

Models are shown below for determining the sensitivity of elements within a function for each of the three basic designs. The following basic assumptions apply:

- a. Except for cases where an element has a redundant or parallel counterpart or is located in a function with a redundant or parallel function, only the element under consideration shall be assumed to have failed initially. Thus the expression $P(A|i_a)$, representing the accident probability given failure of the i th Work Unit Code element, is based on the assumption that no other element has failed unless element i is in some redundant or parallel configuration. For cases in which there are redundant or parallel counterparts, failures of such counterpart elements or functions are considered in accordance with their occurrence probabilities.
- b. The success of all immediate predecessors ensures the success of a function, provided that the function experiences no element failures. Thus for the series function relationship



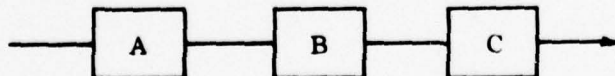
we assume

$$P(\bar{B}|A) = 0,$$

provided B experiences no element failures. If an element in function A is under consideration, the latter provision is always true by assumption "a."

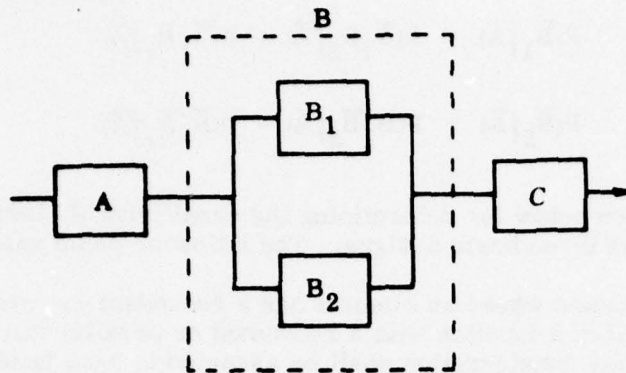
The element sensitivity models are:

Series Relationship



$$P(A|i_a) = P(\bar{A}|i_a)P(\bar{B}|\bar{A})P(\bar{C}|\bar{B})P(A|\bar{C})$$

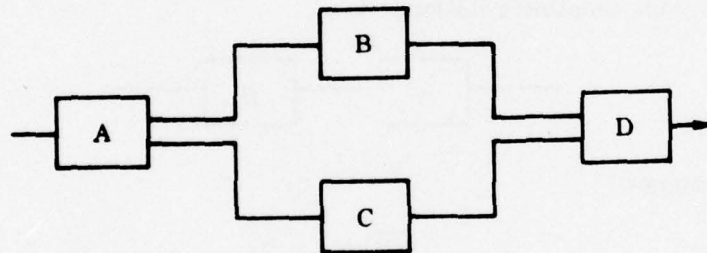
Functional Redundancy



$$P(\mathcal{A}|i_a) = P(\bar{\mathcal{A}}|i_a)P(\bar{\mathcal{B}}|\bar{\mathcal{A}})P(\bar{\mathcal{C}}|\bar{\mathcal{B}})P(\mathcal{A}|\bar{\mathcal{C}})$$

$$P(\mathcal{A}|i_{b1}) = P(\bar{\mathcal{B}}_1|i_{b1})P(\bar{\mathcal{B}}_2)P(\bar{\mathcal{C}}|\bar{\mathcal{B}})P(\mathcal{A}|\bar{\mathcal{C}})$$

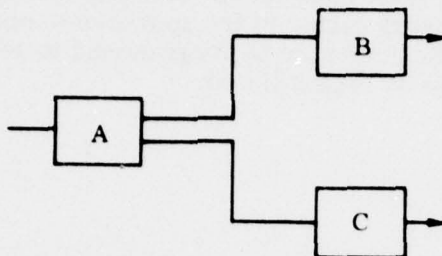
Parallel Functions



$$P(\mathcal{A}|i_a) = P(\bar{\mathcal{A}}|i_a) \{ P(\bar{\mathcal{B}}\bar{\mathcal{C}}|\bar{\mathcal{A}})P(\bar{\mathcal{D}}|\bar{\mathcal{B}}\bar{\mathcal{C}}) + P(\bar{\mathcal{B}}\bar{\mathcal{C}}|\bar{\mathcal{A}})P(\bar{\mathcal{D}}|\bar{\mathcal{B}}\bar{\mathcal{C}}) \\ + P(\bar{\mathcal{B}}\bar{\mathcal{C}}|\bar{\mathcal{A}})P(\bar{\mathcal{D}}|\bar{\mathcal{B}}\bar{\mathcal{C}}) \} P(\mathcal{A}|\bar{\mathcal{D}})$$

$$P(\mathcal{A}|i_b) = P(\bar{\mathcal{B}}|i_b) \{ P(\bar{\mathcal{C}}|i_b)P(\bar{\mathcal{D}}|\bar{\mathcal{B}}\bar{\mathcal{C}}) + P(\mathcal{C}|i_b)P(\bar{\mathcal{D}}|\bar{\mathcal{B}}\bar{\mathcal{C}}) \} P(\mathcal{A}|\bar{\mathcal{D}})$$

A case not explicitly included in the above three basic functional relationships is one for which a function is in two paths, e.g.,



then

$$P(A|i_a) = P(\bar{C}|i_a)P(B|i_a)P(A|\bar{C}B) + P(C|i_a)P(\bar{B}|i_a)P(A|C\bar{B}) \\ + P(\bar{C}|i_a)P(\bar{B}|i_a)\{1 - P(\bar{A}|\bar{C})P(\bar{A}|\bar{B})\}$$

where it is assumed that the effects of loss of the major functions in accident occurrence are independent of each other.

Use of Numerical Provisory Factors for Partially Redundant Systems

The numerical provisory factors (see Table 3-1) are used where more than two identical functions are involved in a redundancy. For example, aircraft with more than two engines often have identical and independent systems for hydraulic pressurization, and for electrical power generation, one driven by each engine. If the aircraft can be operated safely with one or more of such systems in a failed state, one of the numeric codes is utilized in assigning link dependency values. Consider, for example, the following:

If N identical and independent units* are available and at least M are required for safe operation, where $0 < M < N$, then the provisory factor of a given unit, say U_j , is the probability that the failure of U_j will cause the aircraft to enter an unsafe state. This is the probability that exactly $M-1$ of the remaining $N-1$ units will be in an unfailed state. This probability can be calculated by the formula for the binomial distribution, and is given by

$$P(U_j) = \binom{N-1}{M-1} p^{(M-1)} q^{(N-M)}$$

where $P(U_j)$ = probability that failure of the j^{th} unit will cause the aircraft to enter an unsafe state, and

M = Number of units required

N = Number of units available

p = Probability that a single unit will be in an unfailed state

q = Probability that a single unit will be in a failed state or $(1-p)$

*Units may be either elements, element assemblies, or functions.

Assignment of link dependencies to N identical and independent units of which only M are required proceeds as follows. The value assigned to each unit is the dependency of the higher level function on receiving an output from M of the units (usually 1.0). The provisory factor is the appropriate numeric code. In the evaluation of the path sensitivity, the computer is programmed to select the binomial formula that corresponds to the provisory factor listed.

APPENDIX C
FSPT DOCUMENTATION METHODS

FSPT DOCUMENTATION METHODS

Because of the extreme complexity of aircraft, it is necessary to develop a computerized method to identify and document all possible paths associated with each function as well as to determine the safety sensitivity associated with each path. A computer routine has been devised that takes the data from the functional card deck and traces and documents all paths. For each WUC, it also computes the flight-phase sensitivities for each path in which the WUC is present. The resulting computer printout provides a combined functional path sensitivity.

C.1 ALPHA CODING

As each system of the aircraft is functionally diagrammed, the functional blocks are assigned an "alpha code". This code aids the analyst in the bookkeeping tasks of functional diagramming and provides the computer with an identification of the elements to be processed. For standardization among aircraft, nine top-level functions have been defined and each has been assigned an initial or first-alpha designator. Each block in the functional diagram carries the same initial alpha as the top level function. Subsequent letters added to the initial alpha uniquely identify each block.

The only restrictions placed on the assignment of alpha codes are that:

- a. All characters in a code must be a letter of the alphabet, and
- b. The maximum number of characters in one code is seven.

C.2 ALPHA CODING AND COMPUTER PROGRAM COMPATIBILITY

Additional rules for alpha coding required to obtain the desired results from computer processing include:

- a. When a WUC item operates in the same mode to perform more than one function, the same alpha code is used in each application.
- b. When a WUC item operates in a different mode to perform each of more than one function, a different alpha designator is assigned for each operating mode.

C.3 FUNCTIONAL TABULATION

The "Flight Safety Functional Tabulation" sheet is used to code the safety model for keypunching. The sheets are coded as follows (refer to Figure C-1) for an example).

- a. Columns 1 through 3. Used to identify the aircraft represented by the model. For certain aircraft modeled under this contract more than one model - designation series MDS - was included. For instance, a single functional deck was created for four MDSs of the F-4 aircraft. Cards with "F4Ø" in columns 1-3 were common to all aircraft. For example,

*Ø = blank

when these cards are combined with those carrying "F4E" in columns 1-3, then it produces an F-4E FSPT model deck.

- b. Columns 4 through 31. Contain the title of the function or the WUC item.
- c. Columns 32 through 36. Contain the left-justified WUC number.
- d. Columns 37 and 38. Blank
- e. Columns 39 through 46. Contain the assigned alpha designator for the function and/or the WUC. Column 39 contains either an L or an R, or is blank. The L and R designate left and right for those instances when the function and/or WUC pertains to the left or right side of the aircraft.
- f. Columns 47 and 48. Blank.
- g. Columns 49 through 55. Normally left blank, but are used after a deck is operational to substitute the data on a card for that stored in the computer by punching the line record number in this field.
- h. Columns 56 through 63. Identify the dependent functions for either the function or specific WUCs being coded. Column 56 may contain L, R or blank for the same purpose as that of column 39.
- i. Column 64. Contains the alphanumeric code of the "provisory factor" applicable to the link value assigned.
- j. Columns 65 through 69. Contain the alpha designator of a function that is an alternate for the function being coded. (Column 65 is used for "L" or "R" as in Column 39.) The presence of the "alternate alpha" flags the importance of the link dependency as being affected by the success probability of the alternate function.
- k. Column 70. Contains the work unit code dependency value (1 = 0.10; 2 = 0.20;A = 1.0). This value is applicable to all flight phases.
- l. Column 71. Contains special instructions to the computer through the use of letters F, S, or being blank. Cards with an "S" or "blank" in column 71 are used in sensitivity computations. Cards with an "F" document a functional relationships which, although present in the system, would produce an erroneous sensitivity value when combined with other nonindependent paths (having the same function in common at some higher level). The "F" prevents the computer from including the link in the sensitivity calculations.
- m. Columns 72 through 80. Contain functional dependencies for each of nine flight phases as described in Section 3.2.1 of the text. Coding is the same as for column 70.

C.4 DIAGRAM CONSTRUCTION

The diagrams produced under the contract document the functional inter-relationship of the aircraft systems considered in the model. In the interest of extending the useful life of the diagrams, WUC items are not shown, thereby eliminating the necessity of updating the diagrams with each (and sometimes frequent) change to the WUC manual.

As discussed earlier in this report, the diagrams represent the hierarchal structure of the paths from which the sensitivity values are derived. The diagrams, although consistent with the system schematic and reliability block diagrams, are not equivalent due to this hierarchal method of documentation. In the actual system, signals and/or fluids pass from one component to the next and are thus documented in schematics; conversely, the hierarchal approach only identifies the components that must operate to achieve a given function, independent of the direction and/or sequence of signal flow. This approach directly addresses the system impact of a component failure without the necessity of identifying the intrasystem secondary failures. Each line connecting functions on the diagram is documented by a punchcard, with the lower function providing the "alpha designator" and the higher function's alpha designator indicator as the "dependent function".*

*The card deck also documents functional relationships not shown on the diagram; the work unit codes (mentioned earlier) and the "S" cards discussed in paragraph C.3.1.

APPENDIX D
FSPT DOCUMENTATION OF A-7D AIRCRAFT

FSPT DOCUMENTATION OF A-7D AIRCRAFT

This appendix contains the functional relationship diagrams and a listing of the keypunch cards that comprise the FSPT safety model documentation for the A-7D aircraft.

D.1 DIAGRAMS

The diagrams illustrating the functional relationships considered in the A-7D safety model are found on pages D-5 through D-33, and are listed below:

<u>Title</u>	<u>Page</u>
Propulsion, Diagram B-1	D-5
Propulsion, Diagram B-2	D-6
Propulsion Fuel, Diagram B-3	D-7
Propulsion Fuel, Diagram B-4	D-8
Comm/Nav/Ident, Diagram C-1	D-9
Comm/Nav/Ident, Diagram C-2	D-10
Comm/Nav/Ident, Diagram C-3	D-11
Information & Display, Diagram D-1	D-12
Information & Display, Diagram D-2	D-13
Environmental Control, Diagram E-1	D-14
Environmental Control, Diagram E-2	D-15
Environmental Control, Diagram E-3	D-16
Environmental Control, Diagram E-4	D-17
Environmental Control, Diagram E-5	D-18
Flight Control, Diagram F-1	D-19
Flight Control, Diagram F-2	D-20
Flight Control, Diagram F-3	D-21
Flight Control, Diagram F-4	D-22
Flight Control, Diagram F-5	D-23
Flight Control, Diagram F-6	D-24

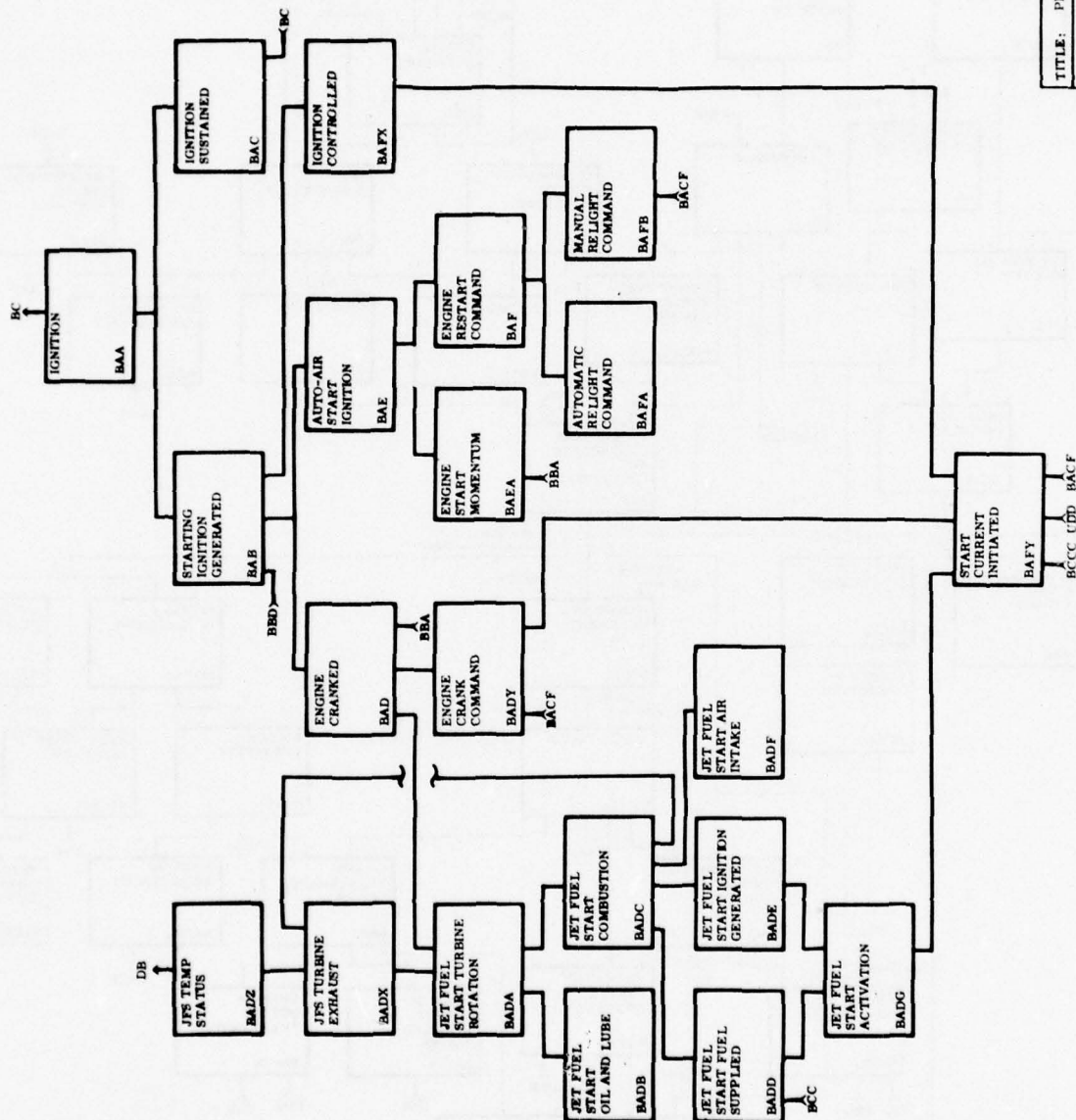
<u>Title</u>	<u>Page</u>
Ground Control, Diagram G-1	D-25
Landing Gear, Diagram L-1	D-26
Mission Support, Diagram M-1	D-27
Utilities, Diagram U-1	D-28
Utilities, Diagram U-2	D-29
Utilities, Diagram U-3	D-30
Utilities, Diagram U-4	D-31
Utilities, Diagram U-5	D-32
Air Data Computer, Diagram UC-1	D-33

D.2 CARD LISTING

Pages D-35 through D-112 are a reproduction of the punchcard listing. The listing is alphabetical by "alpha designator", and the format is that of the 80-column punchcard itself as described in Appendix C. At the top of each page the card columns are printed vertically; for example, column 34 is printed "³/₄".



TITLE: PROPULSION		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT, 75	B-1



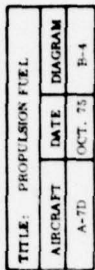
TITLE: PROPULSION		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	B-2

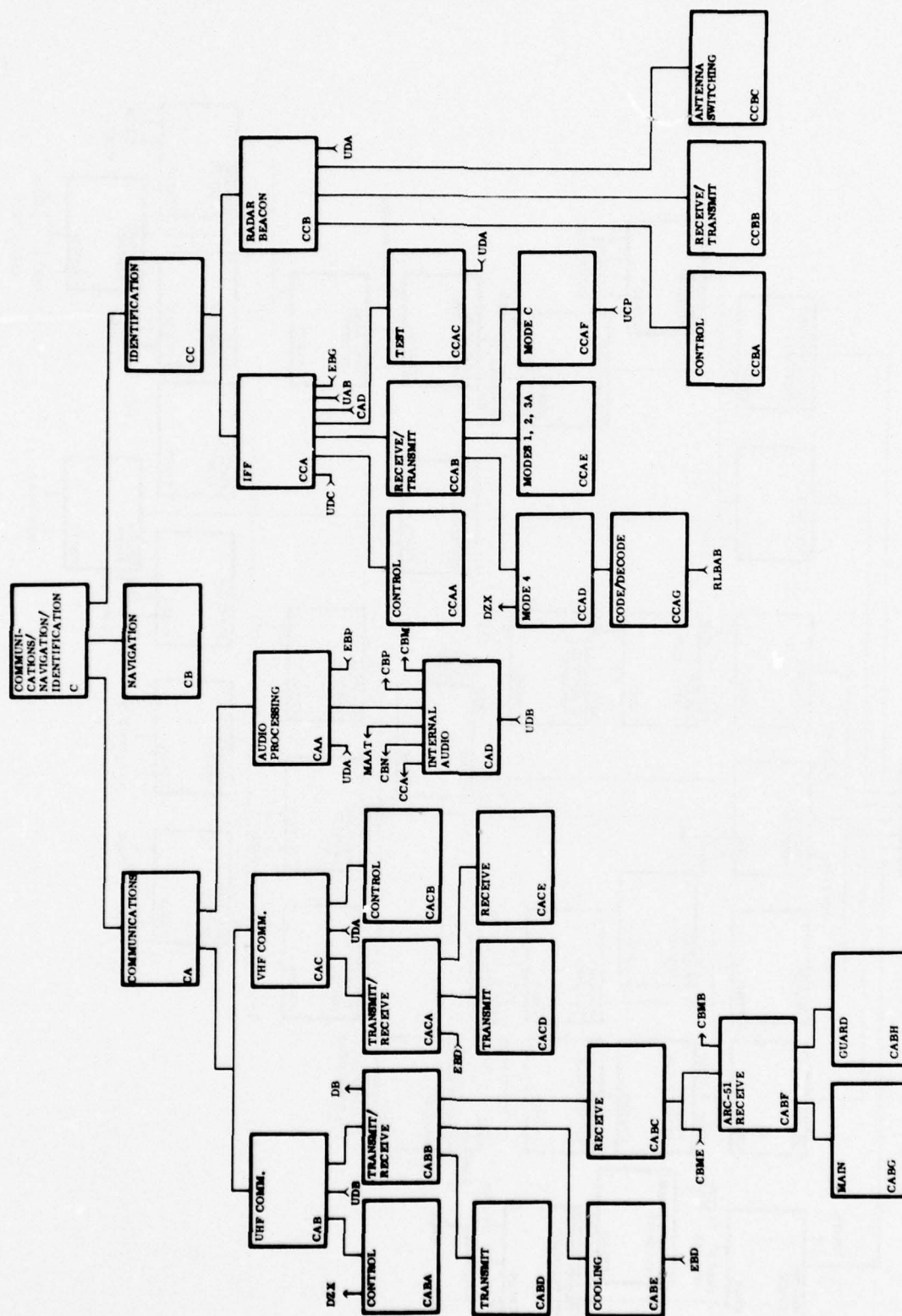


THE PROVISION FUEL

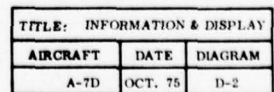
TRCRAFT

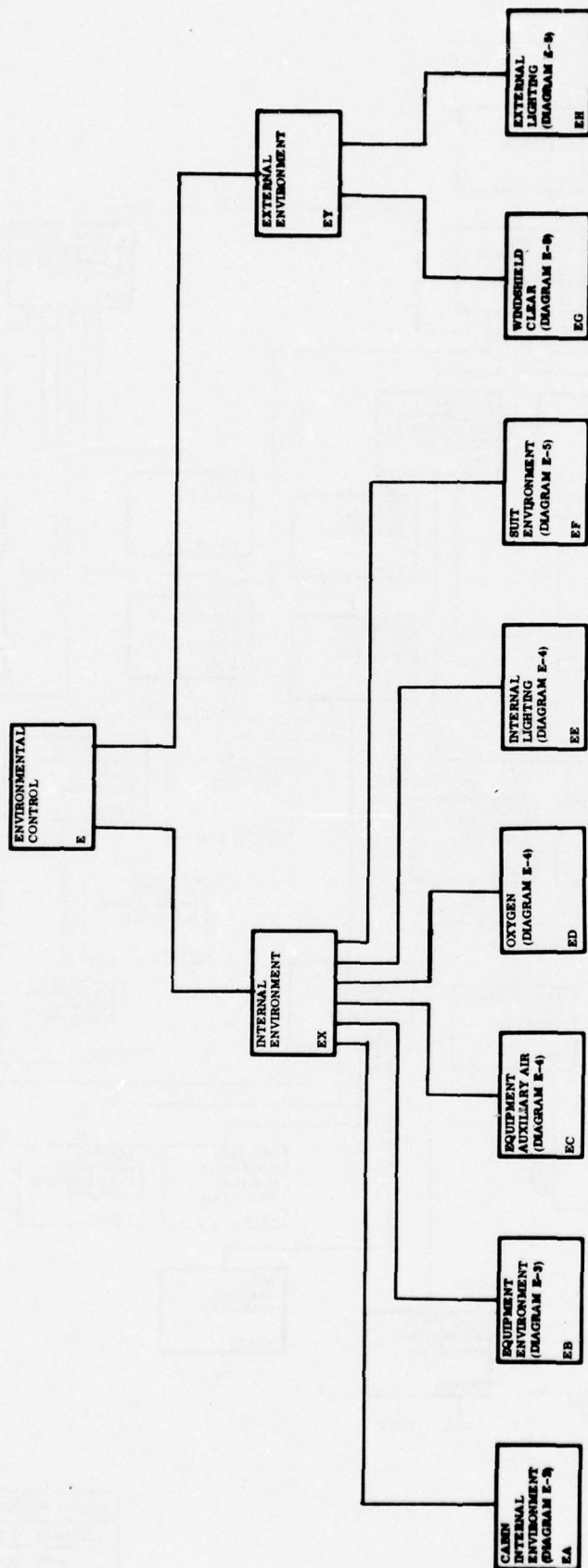
13-5



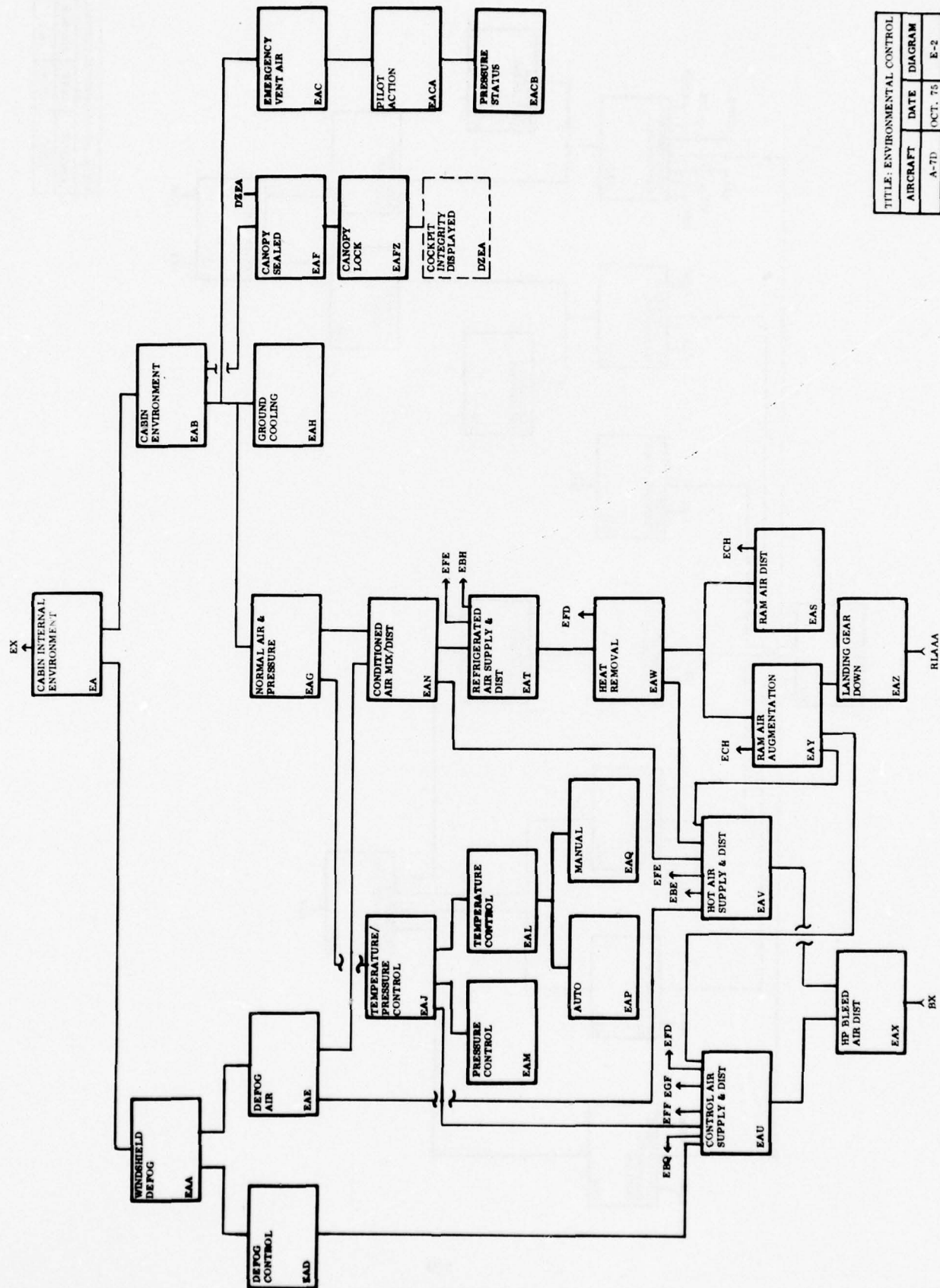


TITLE: COMM/NAV/IDENT		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	C-1

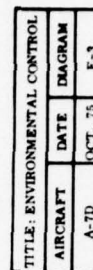


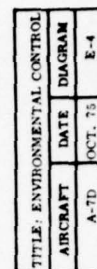


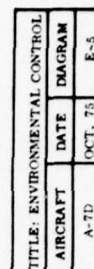
TITLE: ENVIRONMENTAL CONTROL			
AIRCRAFT	DATE	DIAGRAM	
A-7D	OCT. 75	E-1	

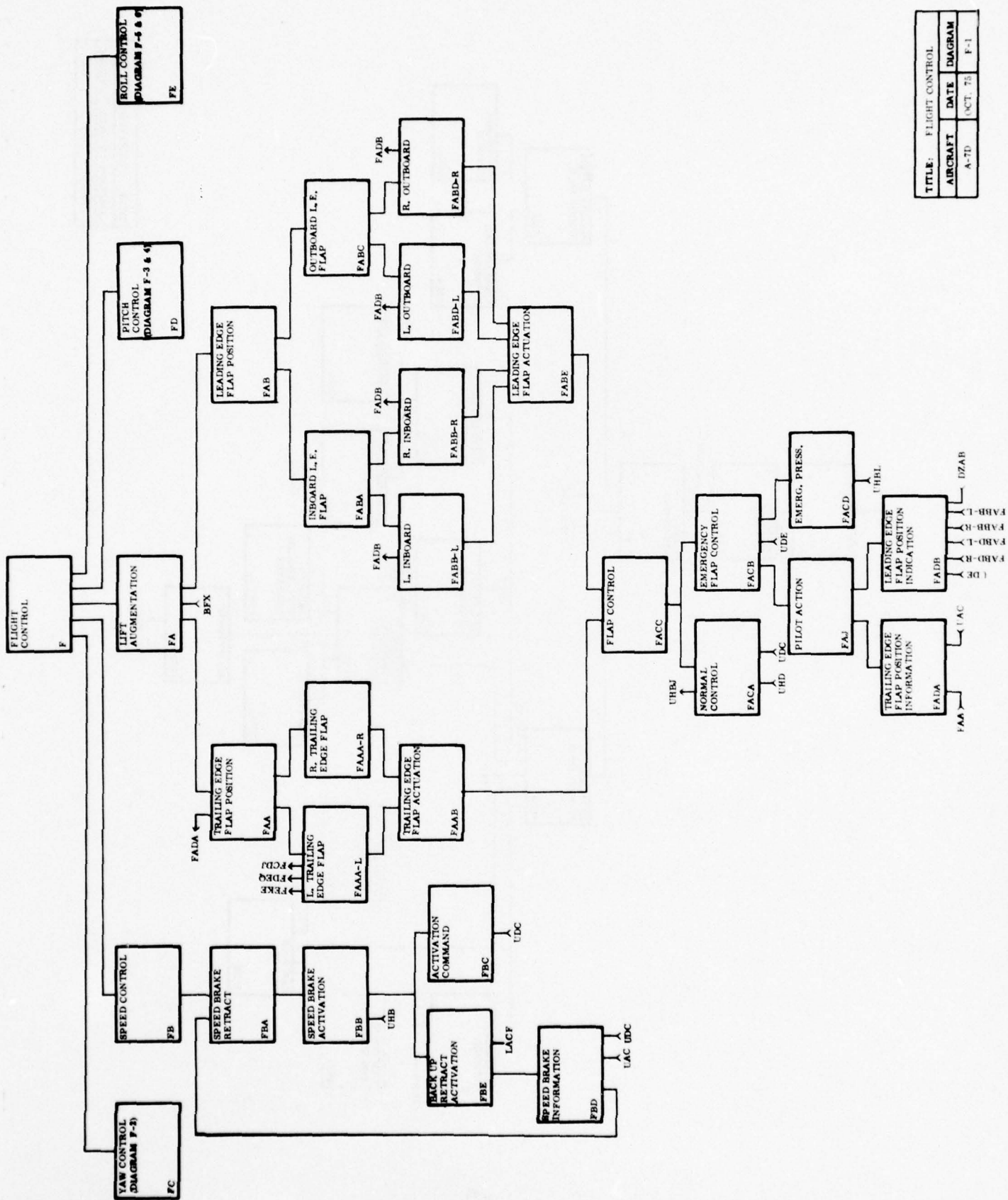


TITLE: ENVIRONMENTAL CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	E-2

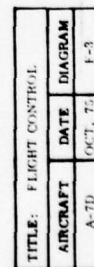


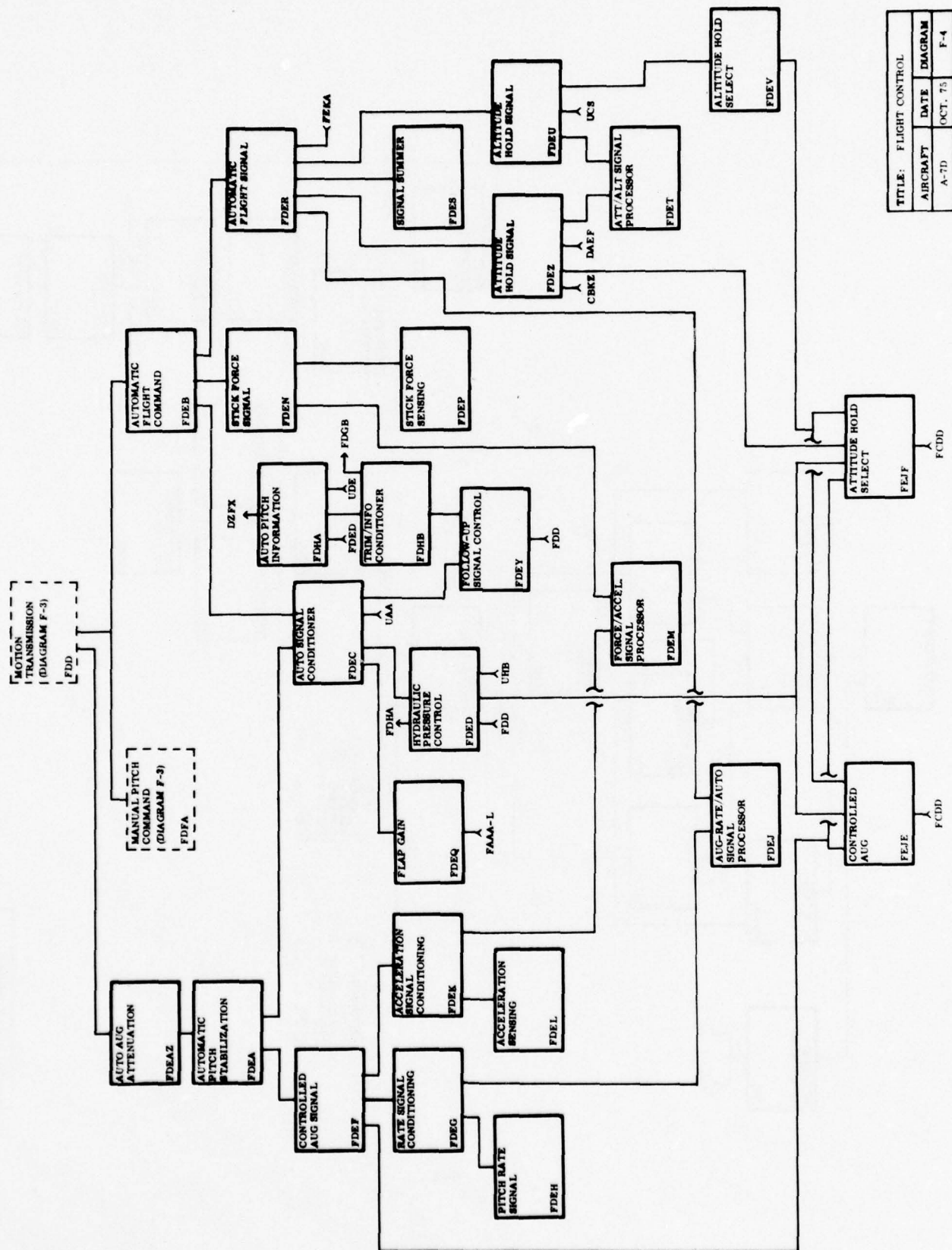




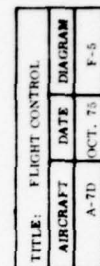


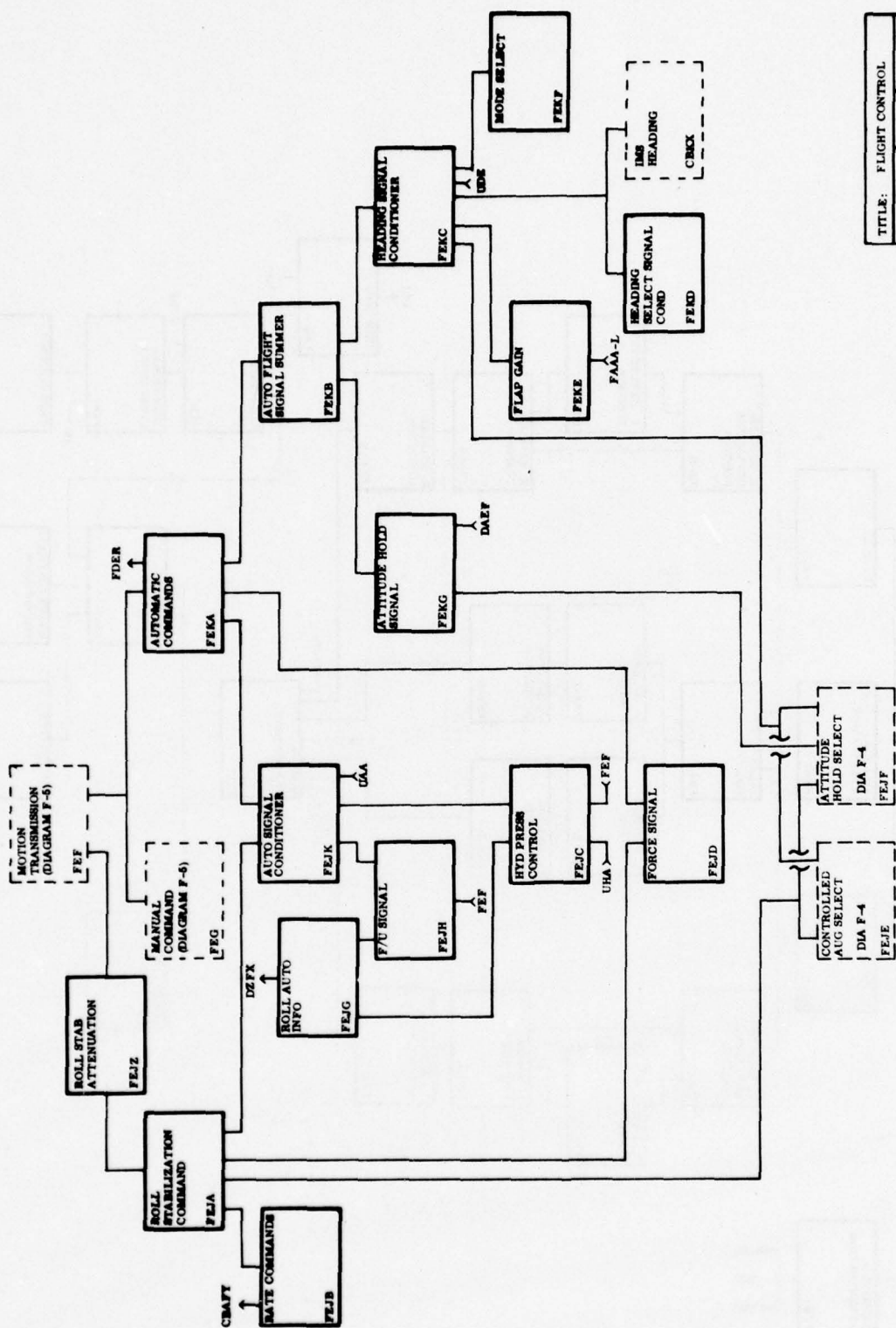
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AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	F-1



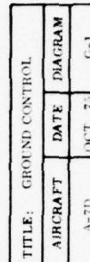


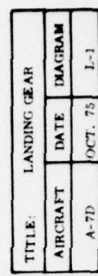
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AIRCRAFT	DATE	DIAGRAM	
A-7D	OCT. 75	F-4	

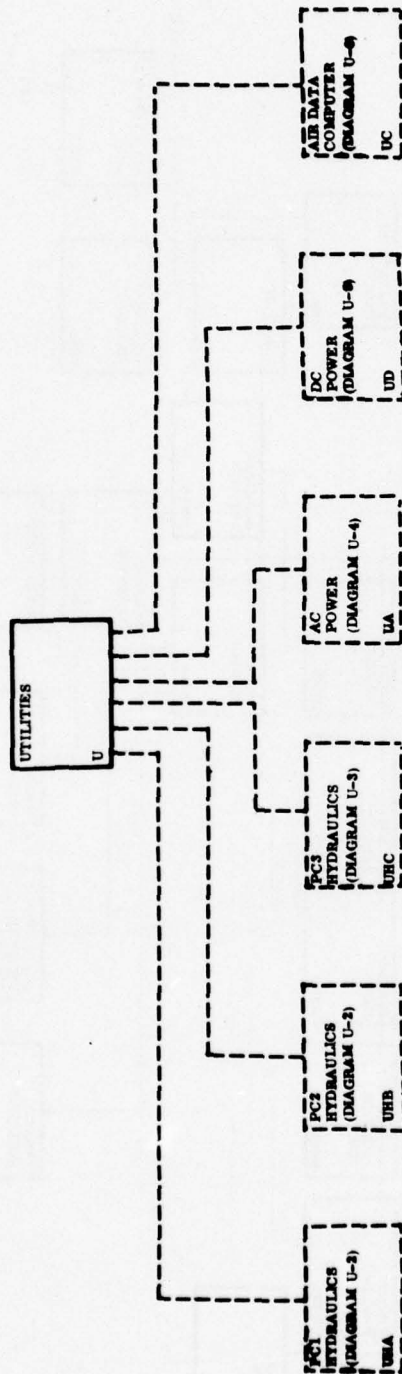




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AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	F-6

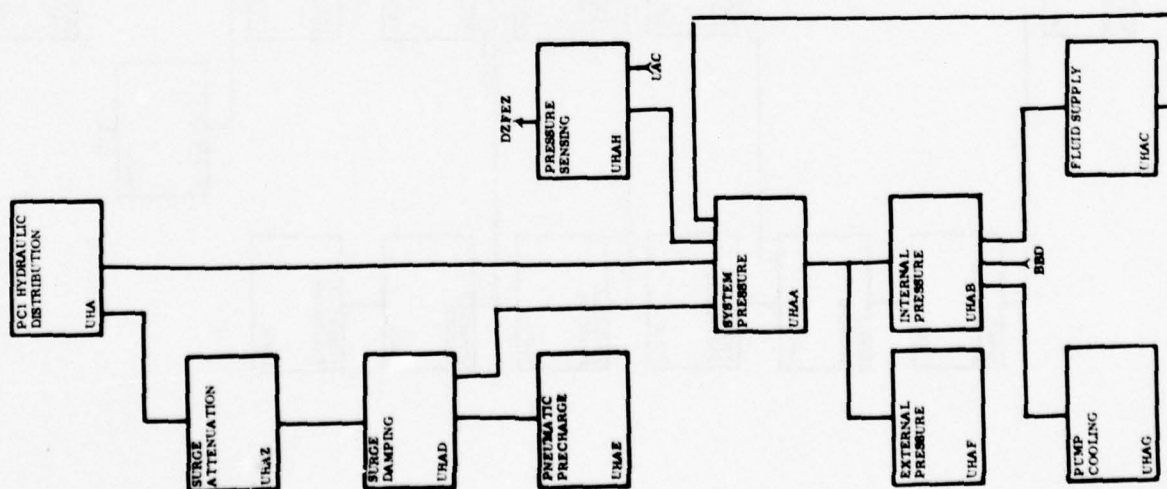
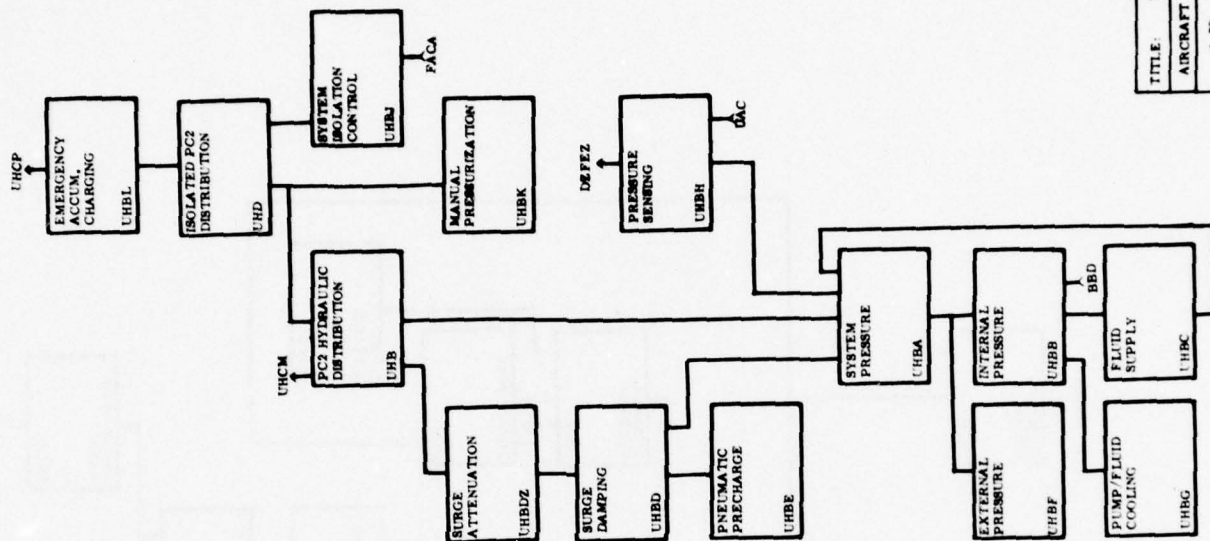




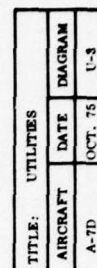


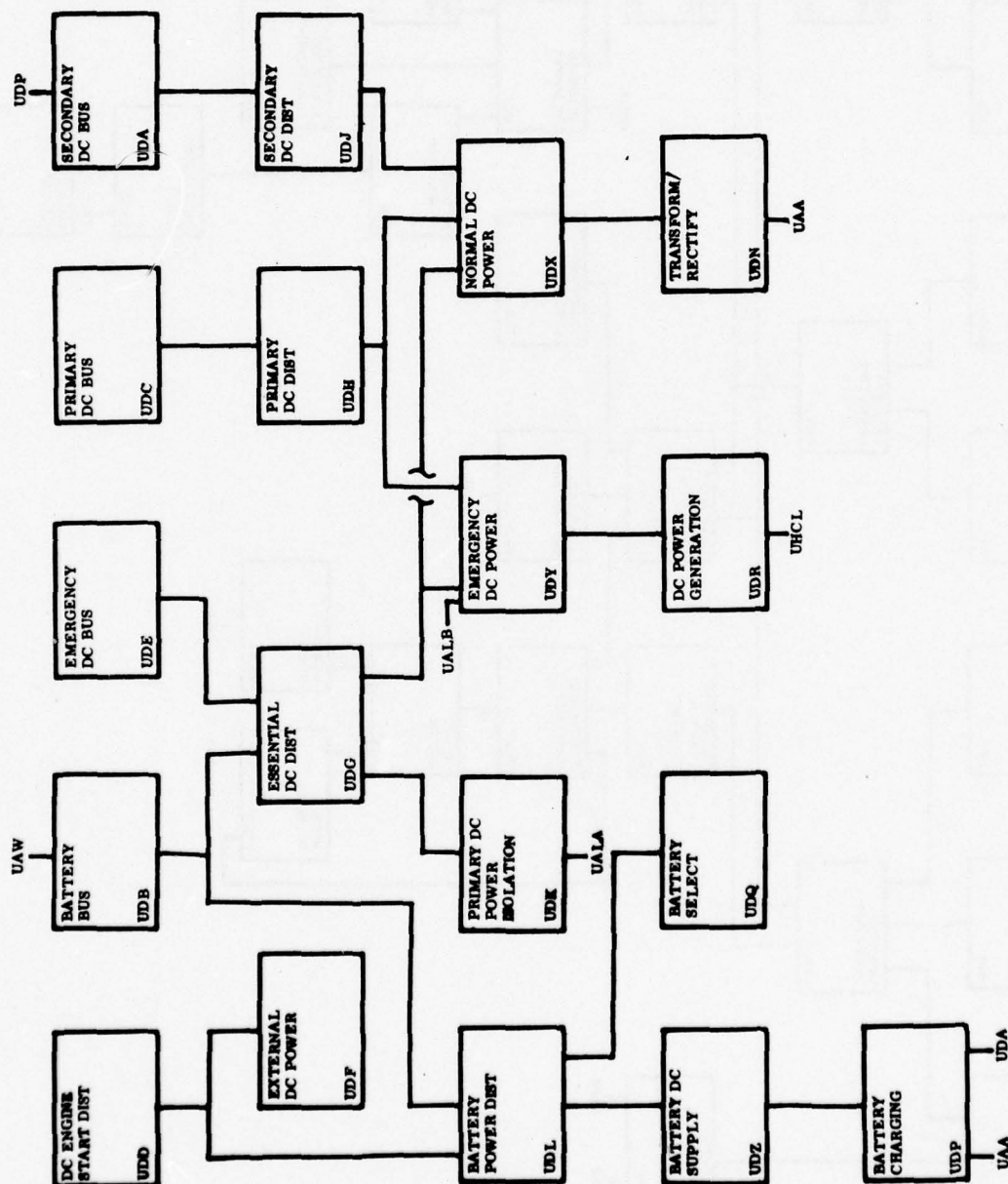
D-28

TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	U-1

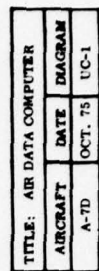


TITLE	UTILITIES
AIRCRAFT	DATE
A-7D	OCT. 75
	1-2





TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT 76	11-5



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FLIGHT SAFETY PREDICTION TECHNIQUE

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 BOOST PUMP DIFF PRESS SW 233GA N BACGBA BACGB 5
A70 ENG LP PUMP PRESS SWITCH 233GB N BACGBB BACGB 5
A70 HP FUEL PUMP PRESS SW 231TD N BACGBC BACGB 5
A70LIGHT BOOST PUMP LOW WARN 12DBO BACGBU BACGB 2
A70LIGHT ENG LP WARNING 12DBO BACGBV BACGB 2
A70LIGHT ENG HP WARNING 12DBO BACGBW BACGB 2
A70 SWITCH ENG. LP FUEL PUMP 23HGC BACGBX BACGB 5
A70SWITCH ASSY HP FUEL PUMP 23HGB BACGRY BACGB 5
A70SWITCH FUEL BOOST PUMP 23HGA BACGBZ BACGB 5
A70FULL BYPASS VALVE 23CAM BACGS BACG 7
A70BYPASS VALVE SEAT 23CAY BACGT BACG 2
A70CAP ASSY FUEL FILTER 23CAX BACGU BACG 0
A70FUEL FILTER HOUSING ASSY 23CAW BACGV BACG 2
A70FUEL FILTER ELEMENT 23CAV BACGW BACG 0
A70HI-PRESS FUEL FILTER ASSY 23CAU BACGX BACG 2
A70VELOCITY FUEL FILTER 23CAT BACGY BACG 1
A70MAIN FUEL PUMP 23CAC BACGZ BACG 5
A70 MASS AIRFLOW SENSED BACH FACE 555555555
A70 LP COMPRESSOR TACHOMETER 231WH N BACHA BACH A
A70 LP TACH GENERATOR 23GAK BACHZ BACH A
A70 ENG PERFORMANCE STATUS BACJ BACF 888888888
A70 ENG PERFORMANCE STATUS BACJ BACF F55555555
A70 TURBINE OUTPUT PRESS STATUS BACJA BACJ 333333333
A70 TURBINE OUTLET PRESS XMTR 233AA N BACJAA BACJA 8
A70 TURBINE OUTLET PRESS IND 233AB N BACJAB BACJA A
A70 ELECTRICAL WIRING 233AC N BACJAC BACJA 3
A70 P5 AIR MANIFOLD 231YF N BACJAF BACJA 5
A70 P5 AIR PROBE 9FA 231YG N BACJAG BACJA 1
A70 TOP ELECTRICAL WIRING 23HAC BACJAU BACJA 3
A70 TOP INDICATOR 23HAB BACJAV BACD 2
A70 TURBINE PRESS XMTR 23HAA BACJAW BACJA 8
A70 AIR LINE MANIFOLD 23HAG BACJAX BACJA 5
A70 FLEX HOSE 23HAE BACJAY BACJA 6
A70 PROBE P-5 AIR 9 EACH 23HAD BACJAZ BACJA 1
A70 TURBINE OUTLET TEMP STATUS BACJB BACJ 333333333
A70 T3 THERMOCOUPLE HARNESS 231WA N BACJBA BACJB 3
A70 T3 THERMOCOUPLE 2EA 231WB N BACJBB BACJB 3
A70 T5 THERMOCOUPLE HARNESS 231WC N BACJBC BACJB 7
A70 T5 THERMOCOUPLE BOX 231WD N BACJBD BACJB 5
A70 T5 THERMOCOUPLE 9EA 231WE N BACJBE BACJB 1
A70 TOT INDICATOR 233DA N BACJBF BACJB A
A70 DOUBLE DATUM THROTTLE SW 231WM N BACJBM BACJB 2
A70 THERMOCOUPLE ASSY T-3 2EA 23GAR BACJBU BACJB 3
A70 ENG HOT CAUTION LIGHT 12DBO BACJBV BACJB 1
A70 TURBINE TEMP INDICATOR 23HDC BACJBW BACJB 2
A70 T-5 THERMOCOUPLE 9 EACH 23HDA BACJBX BACJB 1
A70 HARNESS ASSY T-5 THERMO 23HDB BACJBY BACJB 7
A70 BOX ASSY T-5 THERMOCOUPLE 23GAG BACJBZ BACJB 5
A70ENGINE RPM STATUS BACJC BACJ 333333333
A70 TACHOMETER GENERATOR 233FA N BACJCA BACJC 8

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FLIGHT SAFETY PREDICTION TECHNIQUE

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A70 TACHOMETER INDICATOR	233FB N	BACJCB	BACJC	A
A70 TACH GENERATOR	23HFA	BACJCY	BACJC	8
A70 TACH INDICATOR	23HFB	BACJCZ	BACJC	2
A70 HARNESS ASSY ENG SENSOR	23GAE	BACJZ	BACE	8
A70 INLET AIR TEMP SENSED		BACK	BACH	F55555555
A70 INLET AIR TEMP SENSED		BACK	BCHA	77777777
A70 TEMP SENSING PROBE T1	231AC N	BACKA	BACK	A
A70 THERMOCOUPLE T1	231WG N	BACKB	BACK	A
A70 TEMP PROBE T-1 PHIAL	23AFE	BACKY	BACK	A
A70 THERMOCOUPLE ASSY T-1	23GAD	BACKZ	BACK	A
A70 ENGINE FUEL BOOST		BACL	BACG	002555100
A70 ENGINE FUEL BOOST		BACL	BACGA	F44444444
A70 ENGINE FUEL DELIVERED		BACL	BFG	F11111111
A70 ASSOCIATED FUEL TUBES	231TB N	BACLA	BACL	3
A70 ASSOCIATED DRAIN TUBES	231TC N	BACLB	BACL	0
A70 FUEL DRAIN BLOCK	231TE N	BACLC	BACL	2
A70 LP FUEL PUMP BOOST 2<	231TJ N	BACLD	BACL	1
A70 LP FUEL FILTER	231TK N	BACLE	BACL	1
A70 A/C BACK PUMP DRIV GEAR	231ST N	BACLF	BACL	A
A70 ENG BACK PUMP DRIV GEAR	231SU N	BACLG	BACL	A
A70 BOOST PUMP SHUTOFF VALVE	46AGC	BACLP	BACL	0
A70 FILTER MOTOR RETURN LINE	46AGB	BACLQ	BACL	0
A70 FUEL BOOST PUMP MOTOR	46AGA	BACLR	BACL	A
A70 LP FUEL FILTER BYPASS	9923K	BACLS	BACL	8
A70 VALVE ASSY BALL DRAIN	23CAP	BACLT	BACL	0
A70 LP FUEL PUMP DRAIN	23AED	BACLU	BACL	0
A70 TUBES FUEL FILTER	23CAS	BACLV	BACL	3
A70 INDICATOR LP FILTER	23CAR	BACLW	BACL	0
A70 FUEL FILTER LP	23CAH	BACLX	BACL	1
A70 LP FUEL PUMP (BOOST 2)	23CAA	BACLY	BACL	1
A70 FUEL BOOST PUMP NO1	46AFN	BACLZ	BACL	1
A70 COMB CROSS-OVER TUBES 10EA	9923E	BACZ	BAC	1
A70 ENGINE CRANKED		BAD	BAB	K BAE AAAAAAAAAA
A70 JFS TURBINE ROTATION		BADA	BAD	AAAAAAAAAA
A70 JFS TURBINE ROTATION		BADA	BADX	FAAAAAAAAAA
A70 ANNULAR BALL BEARING	232AA N	BADAA	BADA	7
A70 OUTPUT SHAFT	232AB N	BADAB	BADA	8
A70 PERFORMED PACKING	232AC N	BADAC	BADA	2
A70 SWITCH ACTUATOR GOVERNOR	232AD N	BADAD	BADA	5
A70 PAWL & RATCHET ENG CNX	9923F	BADAU	BAD	A
A70 SHAFT PACKING PREFORMED	23JFC	BADAW	BADA	2
A70 STARTER OUTPUT SHAFT	23JFB	BADAX	BADA	8
A70 GOVERNOR SWITCH ACTIVATED	23JFD	BADAY	BADA	5
A70 BEARING ANNULAR BALL	23JFA	BADAZ	BADA	7
A70 JFS OIL DISTRIBUTED		BADH	BADA	55555555
A70 PWP TURBIN MAGNETIC PLUG	232CA N	BADBA	BADH	1
A70 ACCESSORY DRIVE PLUG	232CB N	BADBB	BADH	1
A70 ACC.DRIVE OIL STRAINER	232CC N	BADBC	BADH	2
A70 GAS GEN OIL STRAINER	232CD N	BADBD	BADH	2
A70 OIL DRAIN ADAPTER	232CE N	BADBE	BADH	0

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A7D ACC.DRIVE MAGNETIC PLUG 232CF N BADBF BADB 0
A7D ACC.DRIVE MACHED PLUG 232CG N BADBG BADB 0
A7D STARTER OIL FILTER DRAIN 232CH N BADBH BADB 0
A7D STARTER OIL TANK DRAIN 232CJ N BADBJ BADB 0
A7D OIL TANK DRAIN 23AEQ BADBR BADB 0
A7D OIL FILTER DRAIN 23AEP BADBS BADB 0
A7D OIL DRAIN PLUG MACH. THREAD 23JHG BADBT BADB 0
A7D OIL DRAIN PLUG MAGNETIC 23JHF BADBU BADB 0
A7D OIL DRAIN ADAPTER 23JHE BADBV BADB 0
A7D OIL STRAINER 23JHD BADBW BADB 2
A7D OIL STRAINER 23JHC BADBX BADB 2
A7D ACCESSORY DRIVE PLUG 23JHB BADBY BADB 1
A7D POWER TURBINE OIL PLUG 23JHA BADBZ BADB 1
A7D JFS COMBUSTION BADUC BADA AAAAAAAAAA
A7D GTH IGNITER PLUG 232DB N BADCA BADC A
A7D IGNITER PLUG 23JJB BADCX BADC A
A7D JFS FUEL SUPPLIED BADD BADD AAAAAAAAAA
A7D FUEL CONTROL 232BA N BADDA BADD A
A7D FUEL DRAIN VALVE 232BB N BADDB BADD 1
A7D FUEL PRESS FILTER ELEMENT 232BC N BADDC BADD 1
A7D FUEL MANIFOLD 232BD N BADDD BADD 8
A7D FUEL NOZZLE 232BE N BADDE BADD 8
A7D FUEL STARTER DRAIN 232BF N BADDF BADD 0
A7D NORM.OPEN SOL.VALVE 232FM N BADDG BADD 5
A7D NORM.CLOSED SOL.VALVE 232FN N BADDH BADD 5
A7D JFS FUEL DRAIN 23AEN BADDS BADD 0
A7D NORMAL OPEN SOLENOID (DRAIN 23JUN BADDT BADD 5
A7D NORMAL CLOSED SOLENOID FUEL 23JHP BADDU BADD 5
A7D FUEL NOZZLE 23JGE BADDV BADD 8
A7D FUEL MANIFOLD 23JGD BADDW BADD 3
A7D FUEL FILTER ELEMENT 23JGC BADDX BADD 1
A7D FUEL DRAIN 23JGR BADDY BADD 1
A7D FUEL CONTROL 23JGA BADDZ BADD A
A7D JFS IGNITION GENERATED BADE BADC AAAAAAAAAA
A7D IGNITION COIL 232DA N BADEA BADE A
A7D ALTERNATING CURRENT GEN. 232FK N BADEB BADE A
A7D 60 PERCENT SWITCH 9923M BADEW BADE 2
A7D IGNITION COIL 23JJA BADEY BADE A
A7D PERM MAG GENERATOR AC 23JHM BADEZ BADE A
A7D JFS AIR INDUCTED BADF BADC 11111111
A7D INLET AIR DUCT 232FB N BADFB BADF 1
A7D GROOVED CLAMP COUPLING 232FC N BADFC BADF 0
A7D COUPLING GROUND CLAMP 23JAC BADFY BADF 0
A7D JFS INLET AIR DUCT 23JAB BAUFZ BADF 1
A7D JFS ACTIVATION BADG BADC SAAAAAAAAA
A7D JFS ACTIVATION BADG BADD FAAAAAAAAA
A7D JFS ACTIVATION BAUG BADE FAAAAAAAAA
A7D STARTER ELECTRIC MOTOR 232EA N BADGA BADG A
A7D ELECT.DIST.BOX ASSEMBLY 232EF N BADGB BADG A
A7D ELECT.PWP.CABLE ASSY. 232FG N BADGC BADG 5

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FLIGHT SAFETY PREDICTION TECHNIQUE

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 STARTER MOTOR CABLE ASSY 232FH N BADGD BADG 8
A70 CABLE ASSY ELECTRIC POWER 23JRH BADGU BADG 5
A70 ELECTRIC DIST BOX ASSY 23JBG BADGV BADG 4
A70 JFS OVERSPEED INDICATOR 23JRR BADGW DB 1
A70 TOTAL TIME METER 23JRL BADGX DB 1
A70 CABLE ASSY START MOTOR 23JRK BADGY BADG 8
A70 JFS STARTER MOTOR 23JRA BADGZ BADG A
A70 JFS TURBINE EXHAUST DUCTED BADX BADG 8888888888
A70 JFS TURBINE EXHAUST DUCTED BADX BADZ F555555555
A70 EXHAUST DUCT 232FA N BADXA BADX 3
A70 JFS EXHAUST DUCT 23JAA BADXZ BADX 3
A70 ENGINE CRANK COMMAND BADY BAD AAAAAAAAAA
A70 JFS STATUS INDICATED BADZ DB 0000000000
A70 AUTO RELIGHT SWITCH 231YH N BADZA BADZ A
A70 JFS OVER TEMP CAUTION LIGHT 12FBU BADZY BADZ A
A70 JFS OVER TEMP SWITCH 2322N BADZZ BADZ A
A70 AUTO AIP START IGNITION BAE BAB BAD 1111111111
A70 ENGINE START MOMENTUM BALA BAF AAAAAAAAAA
A70 AUTO IGNITION ACTUATOR 23LAG BAEZ BAF A
A70 ENGINE RE-START COMMAND BAF BAF AAAAAAAAAA
A70 AUTO RE-LIGHT COMMAND BAF BAF BAB 1111111111
A70 RELIGHT PRESS DIFFERNTL SWITCH 2323L BAFAZ BAF A
A70 MANUAL INITIATED AUTO-LIGHT BAF BAF K BAF AAAAAAAAAA
A70 THROTTLE AUTO LIGHT SWITCH 23EAF BAFHZ BAF B A
A70 IGNITION CONTROLLED BAF BAB AAAAAAAAAA
A70 CONTROL RELAY BOX 231WJ N BAFXA BAFX A
A70 IG. CONTROL RELAY ASSY 23EAF BAFXZ BAFX A
A70 START CURRENT INITIATED BAFY BADG AAAAAAAAAA
A70 START CURRENT INITIATED BAFY BADY FAAAAAAAAA
A70 START CURRENT INITIATED BAFY BAFX FAAAAAAAAA
A70 STARTER ABORT SWITCH 232EC N BAFYA BAFY 0
A70 IGNITION SWITCH 232ED N BAFYB BAFY A
A70 STARTER SOLENOID CONTACT 232ED N BAFYC BAFY 8
A70 STARTER ABORT SWITCH 23JRC BAFYX BAFY 0
A70 IGNITION SWITCH 23JRD BAFYY BAFY A
A70 CONTACTOR START SOLENOID 23JRE BAFYZ BAFY 8
A70 TAIL PIPE ASSY 23AHA BAT BA 5
A70 CASE ASSY TURBINE EXHAUST 23BJR BAU BA A
A70 TURBINE EXHAUST CASE FAIRING 23BJC BAV BA 5
A70 MIXER ASSY BYPASS AIR/EXH*ST 23BJD BAW BA 4
A70 RING SEAL EXHAUST MIX UNIT 23BJE BAX BA 6
A70 FAIRING BYPASS AIR/EX MIXER 23BJF BAY BA 5
A70 INNER TURBINE EXHAUST CONE 23BJG BAZ BA 5
A70 TURBINE OUTPUT PRESSURE HB BA AAAAAAAAAA
A70 TURBINE OUTPUT PRESSURE HB BBA FAAAAAAAAA
A70 ENGINE ROTATION BBA BAD FAAAAAAAAA
A70 ENGINE ROTATION BBA BAE FAAAAAAAAA
A70 ENGINE ROTATION BBA BBA FAAAAAAAAA
A70 ENGINE ROTATION BBA BCB AAAAAAAAAA
A70 OIL PRESSURE STATUS BBA BACF I BAD 8888888888

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FLIGHT SAFETY PREDICTION TECHNIQUE

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A70	STAGE 2 LP TURB.AIR SEAL	231K1	N	B3AADD	BBA	2
A70	STAGE 2 LP TURB.VANE	231K2	N	B3AADE	BBA	4
A70	STAGE 2 LP TURB.VANE SUP	231K3	N	B3AADF	BBA	8
A70	HP COMP FWD BRG SUP HOUS	231DJ	N	B3AADJ	BBA	8
A70	LP COMP AFT BRNG SUPPORT	231DT	N	B3AADT	BBA	8
A70	HP TURB BRNG VENT TURF	231HA	N	B3AAHA	BBA	0
A70	HP COMP BEARING HOUSING	231HH	N	B3AAHB	BBA	8
A70	HP COMP DIF/BRNG HOUSNG	231HJ	N	B3AAHC	BBA	8
A70	TURB.VANE CASE AND SEAL	231KA	N	B3AAKA	BBA	A
A70	TURB. OUTER/INNER SEAL	231KB	N	B3AAKB	BBA	2
A70	TURB. INNER STAGE SEAL	231KC	N	B3AAKC	BBA	2
A70	LP TURBINE STG.1 VANE	231KD	N	B3AAKD	BBA	A
A70	TURBINE INNER STAGE PANI	231KE	N	B3AAKE	BBA	2
A70	STG.2 HPT SEAL SEGMENT	231KF	N	B3AAKF	BBA	2
A70	STG.2 HPT NOZZL SEGMENT	231KG	N	B3AAKG	BBA	2
A70	STG.2 HPT AIR SEAL	231KH	N	B3AAKH	BBA	2
A70	STG.2 HPT VANE ASSY	231KJ	N	B3AAKJ	BBA	A
A70	STG.2 HPT VANE SUPPORT	231KK	N	B3AAKK	BBA	8
A70	TURBINE VANE CASE ASSY	231KL	N	B3AAKL	BBA	8
A70	HPT VENT/FEED/SCVNG TURF	231KP	N	B3AAKP	BBA	A
A70	HPT BEARING SUPPORT ASSY	231KO	N	B3AAKO	BBA	8
A70	HPT STG.1 OUTER AIR SEAL	231KR	N	B3AAKR	BBA	2
A70	HPT STG.1 INNER AIR SEAL	231KS	N	B3AAKS	BBA	2
A70	HPT AIR SEAL	231KT	N	B3AAKT	BBA	2
A70	HPT VANE SERRATED RING	231KU	N	B3AAKU	BBA	8
A70	HPT AIR SEAL SUPPORT	231KV	N	B3AAKV	BBA	2
A70	HPT VANE LOCATING SEGMENT	231KW	N	B3AAKW	BBA	8
A70	HPT STG.1 VANE	231KX	N	B3AAKX	BBA	A
A70	HPT REAR AIR SEAL	231KY	N	B3AAKY	BBA	2
A70	THERMO INSULATION CASE	231KZ	N	B3AAKZ	BBA	8
A70	STG.1 HPT WHEEL & SHAFT	231LA	N	B3AALA	BBA	A
A70	BALANCE WEIGHT HPT	231LB	N	B3AALB	BBA	A
A70	STG.2 HPT SEAL OUTER AIR	231LC	N	B3AALC	BBA	2
A70	STG.2 HPT INNER AIR SEAL	231LD	N	B3AALD	BBA	2
A70	STG.1 HP TURBINE WHEEL	231LE	N	B3AALE	BBA	8
A70	STG.1 HP TURBINE BLADE	231LF	N	B3AALF	BBA	1
A70	STG.2 HP TURBINE WHEEL	231LG	N	B3AALG	BBA	8
A70	STG.2 HP TURBINE BLADE	231LH	N	B3AALH	BBA	1
A70	HPT ROTOR TO SHAFT NUT	231LJ	N	B3AALJ	BBA	8
A70	HPT SHAFT AIR SEAL	231LK	N	B3AALK	BBA	2
A70	HPT ROTOR SHAFT	231LL	N	B3AALL	BBA	8
A70	HP TURBINE COUPLING	231LM	N	B3AALM	BBA	A
A70	HPT TO COMP COUPLING LOCK	231LN	N	B3AALN	BBA	A
A70	HPT SHAFT SEAL RING	231LP	N	B3AALP	BBA	2
A70	LP TURBIN BALANCE WEIGHT	231MA	N	B3AAMA	BBA	A
A70	HP/LP INTERST.SLEEVE SEAL	231MB	N	B3AAMB	BBA	2
A70	LPT SPANNR WHL/SHAFT NUT	231MC	N	B3AAMC	BBA	A
A70	LP TURBINE ROTOR ASSY	231MD	N	B3AAMD	BBA	A
A70	STG.1 LP TURBINE WHEEL	231ME	N	B3AAME	BBA	A
A70	STG.1 LP TURBINE BLADE	231MF	N	B3AAMF	BBA	1

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D  STD.2 LP TURBINE WHEEL  231MG N B3AAMG  BBA  A
A7D  STD.2 LP TURBINE BLADE  231MH N BBAAMH  BBA  1
A7D  LP TURBINE SHAFT  231MJ N BBAAMJ  BBA  A
A7D  REAR STIFFENER TUBE  231MK N BBAAMK  BBA  A
A7D  HP COMPRESSOR COUPLING  231MM N BBAAML  BBA  A
A7D  SPHERICAL COUPLING LOCK  231MN N BBAAMN  BBA  A
A7D  SPHERICAL SEATING SLEEVE  231MP N BBAAMN  BBA  2
A7D  LP TURBINE BEARING COVER  231NC N BBAANC  BBA  2
A7D  STD 2 LPT VANE PLTY. RING  231NF N BBAANF  BBA  A
A7D  LPT BEARING CONICAL SEAL  231NG N BBAANG  BBA  2
A7D  LPT AIR SEAL  231NH N BBAANH  BBA  2
A7D  LPT DEFLECTOR PLATE  231NJ N BBAANJ  BBA  2
A7D  SEAL SUPPORT ASSY  231NK N BBAANK  BBA  1
A7D  BRNG SUPPORT AND FITTING  231NL N BBAANL  BBA  A
A7D  LP FAIRING SUPPORT ASSY  231NM N BBAANM  BBA  A
A7D  NO.1 ROLLED BEARING ASSY  231QA N BBAQA  BBA  8
A7D  NO.1 FRONT INNER RACE  231QB N BBAQBR  BBA  8
A7D  FRONT RACE RETAINER RING  231QJ N BBAQJ  BBA  2
A7D  LP COMP SHAFT AFT BRNG  231QS N BBAQSS  BBA  8
A7D  INNER ROLLER BEARING RACE  231QT N BBAQT  BBA  8
A7D  LP COMP NO4 THRUST BRNG  231Q2 N BBAQ2  BBA  8
A7D  LP TRUS ANTISPLASH RING  231Q4 N BBAQ4  BBA  1
A7D  NO 4 THRUST BEARING SEAL  231Q7 N BBAQ7  BBA  2
A7D  NO.3 HP COMP BRNG ASSY  231QX N BBAQX  BBA  8
A7D  HPC NO 3 INNER BRNG RACE  231QY N BBAQY  BBA  8
A7D  NO.5 COMP. THRUST BEARING  231RA N BBAARA  BBA  8
A7D  FWD HP THRUST BRG. SLEEVE  231RB N BBAARB  BBA  2
A7D  AFT HP THRUST BRG. SLEEVE  231RC N BBAARC  BBA  2
A7D  NO 5 BEARING FRONT SEAL  231RD N BBAARD  BBA  2
A7D  NO.5 BRNG REAR SEAL/SUPP  231RE N BBAARE  BBA  8
A7D  NO.5 HP TURBINE BEARING  231RG N BBAARG  BBA  8
A7D  HPT SHAFT BEARING SLEEVE  231RH N BBAARH  BBA  2
A7D  HPT FLEX BEARING HOUSING  231RN N BBAARN  BBA  8
A7D  HPT FLEX BRNG SUPPORT  231RP N BBAARP  BBA  8
A7D  FLEX BRNG SUPPT STOP RING  231RQ N BBAARQ  BBA  8
A7D  NO.7 LP TURBINE BEARING  231RR N BBAARP  BBA  9
A7D  NO.7 LPT BRNG INNER RACE  231RS N BBAARS  BBA  8
A7D  LPT BEARING FRONT COVER  231RT N BBAART  BBA  2
A7D  LPT BEARING SEAL RING  231RU N BBAARU  BBA  2
A7D  LPT FLEX SEAL HOUSING  231RV N BBAARV  BBA  2
A7D  NO.7 LPT BRNG HOUSING  231RW N BBAARW  BBA  5
A7D  NO.7 LPT BRNG STOP RING  231RX N BBAARX  BBA  5
A7D  NO.7 LPT BRNG SLEVE SEAL  231RY N BBAARY  BBA  2
A7D  OIL PRESS WARN LIGHT  12DHO BBAAW  BBA  1
A7D  OIL PRESSURE INDICATOR  23HBC BBAAX  BBA  1
A7D  OIL PRESSURE XMTR  23HBA BBAAY  BBA  1
A7D  OIL PRESS DIFFERENTIAL SW.  23HBB BBAAZ  BBA  1
A7D  OIL PRESSURE TRANSMITTER  233BA N BBAAZA  BBA  1
A7D  PRESSURE DIFF. SWITCH  233BP N BBAAZB  BBA  1
A7D  OIL PRESS. INDICATOR/LITE  233BC N BBAAZC  BBA  1

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FLIGHT SAFETY PREDICTION TECHNIQUE

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A70 OIL DISTRIBUTED BBAB BBA 059999900
A70 OIL DISTRIBUTED BBAB BBB FAAAAAAAAA
A70 OIL PRES.TUBE INT GR.BOX.231DM N BBABAA BBAB 3
A70 OIL TRANSFER TUBE HP.TUP.231HB N BBABAB BBAB 5
A70 OIL & BRNG SERVICE TUBE 231HC N BBABAC BBAB 5
A70 OIL FEED TUBE & LINER AS 231ML N BBABAD BBAB 5
A70 OIL RETURN TUBE LP TUBE 231MA N BBABAE BBAB 3
A70 OIL MAIN SHAFT BRNG TUBE 231NB N BBABAF BBAB 5
A70 LP TURBINE RBN OIL FILTR 231ND N BBABAG BBAB 1
A70 FRONT OIL RING SEAL 231OF N BBABAH BBAB 2
A70 REAR OIL RING SEAL 231ON N BBABAJ BBAB 2
A70 FRONT OIL SEAL RETAINER 231OU N BBABAK BBAB 2
A70 OIL SEAL RING LP COMP BR 231OV N BBABAL BBAB 2
A70 OIL SEAL RETAINER ASSY 231OW N BBABAM BBAB 2
A70 INT GEARBOX OIL SEAL AFT 231OI N BBABAN BBAB 2
A70 OIL BAFFLE SLEEVE 231OQ N BBABAP BBAB 2
A70 OIL SEAL RING RETAINER 231QS N BBABAQ BBAB 2
A70 OIL SEAL RING HOUSING 231Q6 N BBABAR BBAB 1
A70 REAR OIL SEAL HOUSING 231RK N BBABAS BBAB 1
A70 HP TURBINE REAR OIL SEAL 231RL N BBABAT BBAB 2
A70 OIL SEAL RETAINING PLATE 231RM N BBABAU BBAB 2
A70 OIL BAFFLE PLATE HP 231RJ N BBABAV BBAB 2
A70 OIL VENT TUBES 231UF N BBABAW BBAB 0
A70 OIL FILTER ASSY 231UK N BBABAX BBAB 0
A70 FILTER MAINTENCE IND. 231UM N BBABAY BBAB 0
A70 OIL FILTER ELEMENT,PRI 231UN N BBABAZ BBAB 0
A70 OIL FILTER ELEMENT BYPAS 231UP N BBABBA BBAB 1
A70 OIL FILTER BYPASS VALVE 231UQ N BBABBB BBAB 1
A70 ASSOCIATED OIL FEED TUBE 231UG N BBABBC BBAB 5
A70 NO.5 BRNG INTER.SCAL 231YE N BBABBD BBAB 2
A70 OIL SAMPLING VALVE 23DAG BBABF BBAB 0
A70 STRAINER OIL RETURN 23DAX BBABG BBAB 2
A70 OIL FILTER DRAIN VALVE 23AEJ BBABH BBAB 0
A70 COVER ASSY HP OIL FILTER 23DAK BBABJ BBAB 6
A70 ELEMENT HP OIL FILTER 23DAJ BBABK BBAB 0
A70 HOUSING ASSY HP OIL FILTER 23DAH BBABL BBAB 0
A70 FILTER ASSY ENG OIL 23DAB BBABM BBAB 0
A70 REAR SEAL OIL & AIP 23RC5 BBARN BBAB 2
A70 OIL FEED TUBE 23RCZ BBABP BBAB 5
A70 OIL XFER TUBE 23RCX BBABQ BBAB 3
A70 LHX OIL FEED JUNCTION 23RCW BBABR BBAB 7
A70 REAR OIL RING SEAL 23PCU BBABRS BBAB 2
A70 FRONT OIL RING SEAL 23ECK BBABT BBAB 2
A70 HP OIL FEED XFER TUBE 23KEP BBABU BBAB 5
A70 OIL FEED TUBE & FILTER 23FEJ BBABV BBAB 5
A70 OIL XFER TUBE HOUSING LPT 23EHV BBABW BBAB 2
A70 OIL XFER TUBE LPT BEARING 23DHK BBABX BBAB 5
A70 OIL RETURN TUBE LP TURBINE 23RHJ BBABY BBAB 3
A70 OIL FEED TUBE & LINER 23BHC BBABZ BBAB 5
A70 OIL QUANTITY DISPLAYED BBAC DZC I BBABF AAAAAAAAAA

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FLIGHT SAFETY PREDICTION TECHNIQUE

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A70	SOURCE UNIT	233CA N	BBACA	BBAC	5
A70	DETECTOR UNIT	233CB N	BBACB	BBAC	A
A70	INDICATOR	233CC N	BBACC	BBAC	3
A70	INDICATOR HOUSING	233CD N	BBACD	BBAC	0
A70	METER ASSY	233CE N	BBACE	BBAC	5
A70	POWER SUPPLY MODULE	233CF N	BBACF	BBAC	A
A70	RATE METER MODULE	233CG N	BBACG	BBAC	A
A70	OIL QTY SW LIGHT MODULE	233CH N	BBACH	BBAC	3
A70	BYPASS INDICATOR LITE SW	231UL N	BBACL	BBAC	0
A70	OIL CUP O'FLOW DRAIN	23AEK	BBACU	BBAC	0
A70	OIL QTY WARNING LIGHT	12DR0	BBACW	BBAC	3
A70	OIL QTY INDICATOR	23HCC	BBACX	BBAC	3
A70	OIL QTY DETECTOR UNIT	23HCB	BBACY	BBAC	A
A70	OIL QTY SOURCE UNIT	23HCA	BBACZ	BBAC	5
A70	OIL PRESSURE GENERATED		BBAD	BBAA	FAAAAAAAAAA
A70	OIL PRESSURE GENERATED		BBAD	BBAB	AAAAAAAAAA
A70	ENGINE OIL PUMP	231UA N	BBADA	BBAD	5
A70	PRESS RELIEF VALVE ASSY	231UB N	BBADB	BBAD	3
A70	PRESS REGULATOR VLV.ASSY.	231UC N	BBADC	BBAD	5
A70	HIGH PRESS OIL RELIEF VALVE	23DAD	BBADY	BBAD	3
A70	OIL PUMP ASSY	23DAC	BBADZ	BBAD	5
A70	OIL COOLED		BBAE	BBAB	555555555
A70	PRESSURE RELIEF VALVE	231UB N	BBAEA	BBAE	2
A70	ASSOCIATED OIL FEED TUBE	231UG N	BBAEK	BBAE	3
A70	FUEL/OIL COOLER	231UH N	BBAEK	BBAF	8
A70	OIL COOLER TUBING & FITTINGS	23DEC	BBAEK	BBAF	3
A70	ENG OIL COOL RELIEF VALVE	23DEB	BBAEY	BBAE	2
A70	FUEL COOLED OIL COOLER	23DBA	BBAEZ	BBAE	3
A70	OIL SUPPLIED		BBAF	BBAB	AAAAAAAAAA
A70	OIL SUPPLIED		BBAF	BBAC	FAAAAAAAAAA
A70	OIL SCAVENGE GEARBOX TUBE	231DL N	BBAFA	BBAF	8
A70	ASSOC OIL SCAVENGE TUBES	231UE N	BBAFB	BBAF	2
A70	OIL TANK	231UJ N	BBAFD	BBAF	8
A70	ENG OIL FILLER CAP	231UR N	BBAFE	BBAF	0
A70	OIL PUMP CHIP DETECTOR	231UD N	BBAFF	BBAF	0
A70	SCAVENGE OIL PUMP	231S2 N	BBAFG	BBAF	3
A70	ADAPTER ASSY OIL FILLER	23DAW	BBAFI	BBAF	0
A70	FILLER ASSY TANK	23DAV	BBAFM	BBAF	0
A70	HOUSING ASSY OIL FILLER	23DAU	BBAFN	BBAF	0
A70	OIL TANK DRAIN PLUG	23AEH	BBAFP	BBAF	0
A70	BALL DRAIN VALVE ASSY	23DAT	BBAFQ	BBAF	0
A70	REAR OIL TANK COVER	23DAS	BBAFR	BBAF	0
A70	SEAT BALL CHK LOW TANK VALV	23DAR	BBAFS	BBAF	1
A70	BALL VALVE UPPER VENT PIPE	23DAP	BBAFI	BBAF	1
A70	OIL TANK DRAIN HOUSING	23DAN	BBAFU	BBAF	0
A70	SEAT BALL VALVE UPPER VENT	23DAM	BBAFV	BBAF	1
A70	TANK & FITTING ASSY OIL	23DAL	BBAFW	BBAF	3
A70	TANK ASSY OIL	23DAF	BBAFX	BBAF	3
A70	PLUG MAGNET CHIP DETECT	23DAE	BBAFY	BBAF	0
A70	OIL FILLER CAP	23DAA	BBAFZ	BBAF	0

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A70THRUST BEARING SEAL	23PEM	BBAM	BBAB	2
A70THRUST BEARING NO.5 HPC	23PEH	BBAK	BBAB	8
A70THRUST BEARING NO.4 LP	23PEC	BBAL	BBAB	8
A70ROLLER BEARING NO.3 HPC	23PEC	BBAM	BBAB	8
A70INNER BEARING LPC	23PEC	BBAN	BBAB	8
A70BEARING NO.2 LPC	23PEC	BBAP	BBAB	8
A70BEARING INNER RACE	23PEC	BBAQ	BBAB	8
A70BEARING FRONT NO.1	23PEC	BBAR	BBAB	8
A70INNER RACE RETAIN RING FRONT	23PEC	BBAS	BBAB	2
A70ANNULUS VANE HP TURBINE S-1	23PEC	BBAT	BBAB	8
A70HP TURBINE ASSY	23PEC	BBAU	BBAB	4
A70TURBINE VANE CASE ASSY	23PEC	BBAV	BBAB	4
A70TURBINE BLADE HPT	23PEC	BBAW	BBAB	1
A70AIR COOLING MANIFOLD	23PEC	BBAX	BBAB	5
A70POTOR ASSY LP TURBINE	23PEC	BBAY	BBAB	4
A70BEARING SUPPORT LP TURBINE	23PEC	BBAZ	BBAB	4
A70SUPPORT & SEAL HPT BRNG REAR	23PEC	BBBA	BBAB	8
A70SUPPORT HPT BEARING	23PEC	BBBB	BBAB	8
A70ROLLER BEARING HPT NO.6	23PEC	BBBC	BBAB	8
A70ROLLER BEARING LPT NO.7	23PEC	BBBD	BBAB	8
A70HOUSING ROLLER BEARING LPT	23PEC	BBBE	BBAB	5
A70SEAL HOUSING FLEX TAIL LPT	23PEC	BBBF	BBAB	2
A70BEARING SUPPORT & FITTING LP	23PEC	BBBG	BBAB	4
A70SUPPORT ASSY SEAL & NUTS	23PEC	BBBH	BBAB	1
A70COVER REAR LPT BEARING	23PEC	BBBI	BBAB	2
A70COUPLING HP COMP FWD & REAR	23PEC	BBBJ	BBAB	4
A70COUPLING HP COMP SHAFT	23PEC	BBBK	BBAB	4
A70LINER FLANGE LP TURBINE BRNG	23PEC	BBBL	BBAB	3
A70LP TURBINE STIFF SHAFT	23PEC	BBBM	BBAB	4
A70ENGINE ACCESSORIES DRIVEN		BBBN	BBAB	FAAAAAAAAA
A70ENGINE ACCESSORIES DRIVEN		BBBO	BBAB	FAAAAAAAAA
A70ENGINE ACCESSORY DRIVE		BBBP	BBAB	SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE		BBBQ	BBAB	SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE		BBBR	BBAB	SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE		BBBS	BBAB	SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE		BBBT	BBAB	SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE		BBBU	BBAB	SAAAAAAAAA
A70 INTERNAL GEARBOX ASSY	2310K	N BBBA	BBAB	1
A70 INT GRX HOUSNG & FITING	2310L	N BBBC	BBAB	3
A70DIFF. & BRNG HI-SPEED GEAR	2310M	N BBBD	BBAB	7
A70EXTENSION LINK GEARBOX SUPP	2310N	N BBBE	BBAB	8
A70ACCESSORY DRIVE OIBD DRAIN	2310O	N BBBF	BBAB	0
A70MAIN OIL GEAR DRAIN	2310P	N BBBG	BBAB	0
A70INTERNAL GEARBOX ASSY	2310Q	N BBBI	BBAB	1
A70LOW SPEED ACCESSORY DRIVE		BBBJ	BBAB	AAAAAAAAAA
A70LOW SPEED ACCESSORY DRIVE		BBBK	BBAB	FFFFFFFFII
A70 LOW SPEED DRIVE GEAR	23102	N BBBC	BBAB	1
A70 LOW SPEED DRIVEN GEAR	23103	N BBBD	BBAB	1
A70 LOW SPEED GEARBOX ASSY	2310A	N BBBD	BBAB	8
A70 LOW SPEED BVL.GR.DR.SHAFT	2310B	N BBCE	BBAB	4
A70 LOW SPEED BVL DRIVE TUBE	2310C	N BBCE	BBAB	3

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A70 LOW SPEED GEARBOX DRAIN	23AEG	BRCY	BRC	0
A70 LOW SPEED GEARBOX ASSY	23BBB	BRCZ	BRC	8
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BAB	FAAAAAAAAA
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BACG	FAAAAAAAAA
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BACJC	FAAAAAAAAA
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BACL	FAAAAAAAAA
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BBAD	FAAAAAAAAA
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BC	SAAAAAAAAA
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BCC	FAAAAAAAAA
A70 HIGH SPEED ACCESSORY DRIVE		BBD	BCCA	FAAAAAAAAA
A70 ACCESSORY DRIVE		BBD	UATA	AAAAAAAAAA
A70 ACCESSORY DRIVE		BBD	UHAB	AAAAAAAAAA
A70 ACCESSORY DRIVE		BBD	UHBB	AAAAAAAAAA
A70 ACCESSORY DRIVE		BBD	UHCR	AAAAAAAAAA
A70 HI SPEED GRBX OUTER RACE	231DV N	BBD	BBD	8
A70 HI SPEED GRBX GRSHE BRNG	231DW N	BBD	BBD	8
A70 HI SPEED GRBX GEARSHAFT	231DX N	BBD	BBD	A
A70 HI SPEED GR/HSG SUPPORT	231DY N	BBD	BBD	2
A70 HI SPEED GRBX DRIVEN GEAR	231DI N	BBD	BBD	A
A70 HI SPEED GRBX SUPP LINK	231SD N	BBD	BBD	1
A70 HI SPEED GEARBOX ASSY	231SE N	BBD	BBD	A
A70 HI SPEED DRIVE QUILSHAFT	231SF N	BBD	BBD	A
A70 HI SPD AIR BLOWN SEAL	231SJ N	BBD	BBD	0
A70 AIR ALDN SEAL XFER TUBES	231SM N	BBD	BBD	1
A70 HI SPEED GEARBOX COVER	231SN N	BBD	BBD	1
A70 SPIRAL PVL SHAFTK BEARING	231SH N	BBD	BBD	8
A70 SPIRAL BEVEL SHAFTGEAR	231SK N	BBD	BBD	3
A70 ACC DR GEARS AND BEARING	231SL N	BBD	BBD	A
A70 HI SPD GRBX AIR PL SEAL	231SP N	BBD	BBD	1
A70 OVERBOARD BREATHER ELBOW	231SQ N	BBD	BBD	0
A70 CTR. ARTHR SAFT AND ROTOR	231SR N	BBD	BBD	1
A70 IDLER GEAR AND BEARING	231SV N	BBD	BBD	3
A70 MAIN DRIVE GEAR HI SPD	231SY N	BBD	BBD	A
A70 SPIRAL BEVEL DRIVE GEAR	231SZ N	BBD	BBD	A
A70 DIAPHRAM AND BEARING	231S1 N	BBD	BBD	2
A70 HI SPD GRBX HOUSING	231S3 N	BBD	BBD	2
A70 CHIP DETECTOR	231S4 N	BBD	BBD	0
A70 HIGH SPEED GEAR BOX	23BRA	BBDU	UHCB	A
A70 HIGH SPEED GEARBOX ASSY	23BBA	BBDV	UHAB	A
A70 HIGH SPEED GEARBOX ASSY	23BRA	BBDW	UHAB	A
A70 HIGH SPEED GEARBOX ASSY	23BRA	BBDX	UATA	A
A70 HIGH SPEED GEARBOX ASSY	23BRA	BBDY	BCC	A
A70 HIGH SPEED GEARBOX ASSY	23BRA	BBDZ	BBD	A
A70 COMBUSTION		BC	BAC	FAAAAAAAAA
A70 COMBUSTION		BC	BB	AAAAAAAAAA
A70 COMB. LINER AND NOZZLE AS	231JA N	BCAA	BC	8
A70 COMBUSTION OUTER CASE	231JD N	BCAB	BC	A
A70 COMB. LINER PRI. AIR SCOOP	231JE N	BCAC	BC	8
A70 COMB. LINER DISCHG. NOZZLE	231JF N	BCAD	BC	5
A70 COMB. LINER	231JG N	BCAE	BC	1

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A70 SLIDING CONNECTOR 231JH N HCAF BC 1
A70 FUEL TRANSFER TUBE,MAIN 231TR N BCAG BC 7
A70 FUEL TRANSFER TUBE,PILLOT 231TS N BCAF BC 9
A70 FUEL SPRAY NOZZLE 231TT N BCAF BC 1
A70 HP COMPRESSOR OUTER SEAL 231HD N BCAF BC 2
A70 COMPRESSION BCB PC AAAAAAAAAA
A70 COMPRESSION BCB BX FAAAAAAAAA
A70 INLET AIR STABILIZED BCHA BCBAS 111111111
A70 SPHERICAL COUPLING LOCK 231CA N HCBAAA BCB A
A70 LPC DRIVE SHAFT COUPLING 231CB N HCBAAAB BCB A
A70 LPC STAGE 2 BLADE 231CC N HCBAAAC BCB A
A70 LPC STAGE 2 WHEEL 231CD N HCBAAAD BCB A
A70 LPC STAGE 3 BLADE 231CE N HCBAAAE BCB A
A70 LPC STAGE 3 WHEEL 231CF N HCBAAAF BCB A
A70 LPC STAGE 1 COUPLING 231CG N HCBAAAG BCB A
A70 IPC STAGE 2 BLADE 231CH N HCBAAAH BCB A
A70 IPC STAGE 2 WHEEL 231CJ N HCBAAAJ BCB A
A70 IPC STAGE 1 BLADE 231CK N HCBAAAK BCB A
A70 IPC STAGE 1 WHEEL 231CL N HCBAAAL BCB A
A70 BLADE STOP PLATE 231AM N HCBAAAM BCB 7
A70 LP COMP HOUSING & VANE 231AN N HCBAAAN BCB A
A70 BLADE SEAL & RETNG PLATE 231AP N HCBAAAP BCB 2
A70 LP COMP BALANCE WEIGHT 231AQ N HCBAAAQ BCB A
A70 LP COMP STG 2 IN RNG SEAL 231RA N HCBARA BCB 2
A70 LP COMP STG 2 VANE 231PB N HCBABB BCB A
A70 FWD LABYNTN ROTATE SEAL 231QC N HCBABC BCB 5
A70 FWD STATIC SEAL MEMBER 231QD N HCBABD BCB 3
A70 FRONT RING SEAL HOUSING 231QE N HCBABE BCB 1
A70 INTERMED.CASE FAIRING 231QF N HCBABF BCB 3
A70 FWD RNG SL RETAIN PLATE 231QG N HCBABG BCB 2
A70 LP COMP STAGE 1 CLAMP NUT 231AH N HCBABH BCB 8
A70 LP COMP BLADE 231AJ N HCBABJ BCB A
A70 LP COMP WHEEL 231AK N HCBABK BCB A
A70 LP COMP STAGE 1 WHEEL 231AG N HCBABL BCB A
A70 HP COMP INLET GUIDE VANE 231BF N HCBABN BCB 2
A70 IP STAGE 1 VANE ASSY 231BJ N HCBABP BCB A
A70 LP COMPRESSOR DRIVE SHAFT 231GR N HCBABR BCB A
A70 IP COMPRESSOR SUPPORT 231GA N HCBABA BCB A
A70 HP COMP FRONT AIR BAFFLE 231GB N HCBADB BCB 3
A70 HP COMP FRONT AIR HOUSNG 231GZ N HCBADC BCB 3
A70 HPC FRONT AIR SEAL 231GC N HCBADH BCB 2
A70 HP COMP CASE 231EA N HCBAEA BCB A
A70 HP COMP STAGE 1 VANE 231EB N HCBABE BCB A
A70 HP COMP STAGE 2 VANE 231EC N HCBABE BCB A
A70 HP COMP STAGE 3 VANE 231ED N HCBABE BCB A
A70 HP COMP STAGE 4 VANE 231EF N HCBABE BCB A
A70 HP COMP STAGE 5 VANE 231EF N HCBABE BCB A
A70 HP COMP STAGE 6 VANE 231FG N HCBABE BCB A
A70 HP COMP STAGE 7 VANE 231EH N HCBABE BCB A
A70 HP COMP STAGE 8 VANE 231FJ N HCBABE BCB A

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A7D	HP COMP STAGE 9 VANE	231EK N BCRAEK	BCB	A
A7D	HP COMP STAGE 10 VANE	231EL N BCBAEL	BCB	A
A7D	HP COMP STAGE 11 VANE	231EM N BCBAEM	BCB	A
A7D	HP COMP FRONT SHAFT	231FA N BCBAFA	BCB	A
A7D	HP COMP AIR GUIDE TUBE	231FR N BCBAFR	BCB	1
A7D	REAR SHAFT AND SLEEVE	231FC N BCBAFC	BCB	A
A7D	HPC STAGE 1 WHEEL/SHAFT	231FD N BCBAFD	BCB	A
A7D	HPC STAGE 1 WHEEL	231FE N BCBAFE	BCB	A
A7D	HPC STAGE 1 BLADE/RUSHNG	231FF N BCBAFF	BCB	A
A7D	HPC STAGE 1 & 2 SPACER	231FG N BCBAFG	BCB	2
A7D	HPC STAGE 2 WHEEL	231FH N BCBAFH	BCB	A
A7D	HPC STAGE 2 BLADE	231FJ N BCBAFJ	BCB	A
A7D	HPC STAGE 2 & 3 SPACER	231FK N BCBAFK	BCB	2
A7D	HPC STAGE 3 WHEEL	231FL N BCBAFL	BCB	A
A7D	HPC STAGE 3 BLADE	231FM N BCBAFM	BCB	A
A7D	HPC STAGE 3 & 4 SPACER	231FN N BCBAFN	BCB	2
A7D	HPC STAGE 4 WHEEL	231FP N BCBAFP	BCB	A
A7D	HPC STAGE 4 BLADE	231FQ N BCBAFQ	BCB	A
A7D	HPC STAGE 4 & 5 SPACER	231FR N BCBAFR	BCB	2
A7D	HPC STAGE 5 WHEEL	231FS N BCBAFS	BCB	A
A7D	HPC STAGE 5 BLADE	231FT N BCBAFT	BCB	A
A7D	HPC STAGE 5 & 6 SPACER	231FU N BCBAFU	BCB	2
A7D	HPC STAGE 6 WHEEL	231FV N BCBAFV	BCB	A
A7D	HPC STAGE 6 BLADE	231FW N BCBAFW	BCB	A
A7D	HPC STAGE 6 & 7 SPACER	231GA N BCBAGA	BCB	2
A7D	HPC STAGE 7 WHEEL	231GB N BCBAGB	BCB	A
A7D	HPC STAGE 7 BLADE	231GC N BCBAGC	BCB	A
A7D	HPC STAGE 7 & 8 SPACER	231GD N BCBAGD	BCB	2
A7D	HPC STAGE 8 WHEEL	231GE N BCBAGE	BCB	A
A7D	HPC STAGE 8 BLADE	231GF N BCBAGF	BCB	A
A7D	HPC STAGE 8 & 9 SPACER	231GG N BCBAGG	BCB	2
A7D	HPC STAGE 9 WHEEL	231GH N BCBAGH	BCB	A
A7D	HPC STAGE 9 BLADE	231GJ N BCBAGJ	BCB	A
A7D	HPC STAGE 9 & 10 SPACER	231GK N BCBAGK	BCB	2
A7D	HPC STAGE 10 WHEEL	231GL N BCBAGL	BCB	A
A7D	HPC STAGE 10 BLADE	231GM N BCBAGM	BCB	A
A7D	HPC STAGE 10 & 11 SPACER	231GN N BCBAGN	BCB	2
A7D	HPC STAGE 11 WHEEL	231GP N BCBAGP	BCB	A
A7D	HPC STAGE 11 BLADE	231GQ N BCBAGQ	BCB	A
A7D	SEAL PING CARRIER	231HE N BCBAHE	BCB	2
A7D	HPC STAGE 11 STIFNER PNL	231HF N BCBAHF	BCB	2
A7D	FAIRING AND SEAL CARRIER	231HG N BCBAHG	BCB	2
A7D	IGV HI SPD DRIVE BVL GEAR	231DU N BCBAHU	BCBA	A
A7D	IGV ACT.EXTERNAL LINKAGE	231YA N BCBAJA	BCBA	7
A7D	BLEED VALVE CYLINDER	231YB N BCBAJB	BCBA	5
A7D	IGV SURGE CYLINDER	231YC N BCBAJC	BCBA	1
A7D	BLEED AIR TUBES	231YD N BCBAJD	BCBA	7
A7D	AIRFLOW CONTROL REGULATOR	231YE N BCBAJE	BCBA	A
A7D	IGV ACTUATOR INT LINKAGE	231YJ N BCBAJJ	BCBA	7
A7D	IC INLET GUIDE VANE	231BH N BCBAJK	BCBA	3

FLIGHT SAFETY PREDICTION TECHNIQUE

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A70 FRONT AIR TRANSFER RING	23RCM	BCBBP	BCBR	1
A70 FRONT RING RETAINER PLATE	23RCL	BCBBQ	BCBR	2
A70 FRONT RING SEAL HOUSING	23RCJ	BCBBR	BCBR	1
A70 FRONT STATIC SEAL MEMBER	23RCH	BCBBS	BCBR	3
A70 FRONT SUP&FITTING LP COMP	23RCG	BCBRT	BCBR	4
A70 FWD LP COMPRESSOR CASE	23RCF	BCBBU	BCBR	4
A70 BLADE LP COMP STAGE 1	23RCE	BCBBV	BCBR	4
A70 LP COMP WHEEL STAGE 1	23RCD	BCBBW	BCBR	4
A70 SPINNER CAP HOUSING SUPPORT	23RCC	BCBBX	BCBR	1
A70 SPINNER CAP BAFFLE	23RCB	BCBBY	BCBR	1
A70 SPINNER CAP	23RCA	BCBBZ	BCBR	1
A70 BYPASS AIR DUCTED		BCBC	BCBCZ	111111111
A70 BYPASS AIR DUCTED		BCBC	BCB	155555555
A70 FORWARD BYPASS AIR DUCT	23RAD	BCBCA	BCBC	1
A70 REAR BYPASS DUCT	231PA N	BCBCAA	BCBC	1
A70 COOL AIR MANIFOLD/LINER	231JB N	BCBCAB	BCBC	1
A70 OUT GUIDE BYPASS FAIRING	231BE N	BCBCAE	BCBC	2
A70 FORWARD BYPASS DUCT	231KM N	BCRCAM	BCRC	1
A70 REAR BYPASS AIR DUCT	23BAE	BCRCB	BCRC	1
A70 BYPASS AIR ATTENUATION		BCBCZ	BA	111111111
A70 HI-PRESS COMP CASE & VANE	23BEK	BCBW	BCB	4
A70 ROTOR HI-PRESS COMPRESSOR	23BEF	BCBX	BCB	4
A70 HPC SEAL HOUSING FRONT	23BED	BCBY	BCB	3
A70 INT COMPRESSOR SUPPORT	23BEA	BCBZ	BCB	4
A70 ENG FUEL CONTROL/DISTRIBUTE		BCC	BAAD	FAAAAAAAAAA
A70 ENG FUEL CONTROL/DISTRIBUTE		BCC	BAAF	F55555555
A70 ENG FUEL CONTROL/DISTRIBUTE		BCC	BC	AAAAAAAAAAA
A70 ENG FUEL CONTROL/DISTRIBUTE		BCC	BCCX	000000000
A70 AUXILIARY FUEL CONTROL		BCCA	BCC K BCCR	AAAAAAAAAAA
A70 AUX FUEL CONTROL STATUS		BCCA	BZCCC	FAAAAAAAAAA
A70 HI PRESS FUEL SHUTOFF	231TA N	BCCAA	BCC	0
A70 CONTROL CAMBOX	231VB N	BCCAB	BCC	4
A70 ASSOCIATED DRAIN TUBES	231TC N	BCCAC	BCC	2
A70 FUEL SHUTOFF VLV OPR ROD	231VA N	BCCAD	BCC	4
A70 ENGINE CONTROL ADAPTER	234AE N	BCCAE	BCC	4
A70 COLD START FUEL VALVE	231TF N	BCCAF	BCC	0
A70 LP GOVERNOR	231TG N	BCCAG	BCC	2
A70 ACCESSORY MOUNTING BRACKET	231VC N	BCCAH	BCC	0
A70 FUEL MANIFOLD CONNECTOR	231TQ N	BCCAJ	BCC	8
A70 MANUAL FUEL CONTROL	231TN N	BCCAN	BCCA	4
A70 MAN.FUEL CONT.OPER.ROD	231VE N	BCCAV	BCCA	4
A70 MANUAL FUEL CONTROL ASSY	23CAK	BCCAZ	BCCA	5
A70 PRIMARY FUEL CONTROL		BCCB	BCC	BCCA 111111111
A70 MAIN CONT OPERATING ROD	231VD N	BCCBD	BCCR	8
A70 MAIN FUEL CONTROL	231TM N	BCCBM	BCCR	8
A70 FUEL CONT LIMITER SOLENOID	9923D	BCCBY	BCCR	4
A70 MAIN FUEL CONTROL	23CAE	BCCBZ	BCCR	8
A70 THROTTLE MOVEMENT		BCCC	BAFY	FAAAAAAAAAA
A70 THROTTLE MOVEMENT		BCCC	BCC	0AAAAAAAAA
A70 THROTTLE POSITION		BCCC	BFA	FAAAAAAAAAA

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1234567890123456789012345678901234567890123456789012345678901234567890
A7D THROTTLE MOVEMENT BCCC GAX FAAAAAAAAA
A7D THROTTLE QUADRANT ASSY 234AA N BCCCA BCCC 8
A7D PUSH PULL CONTROL ASSY 234AC N BCCCC BCCC 5
A7D SUPPORT ASSY 234AD N BCCCD BCCC 3
A7D SUPPORT ASSY 234AD N BCCCD BCCC 3
A7D PUSH/PULL CONTROL ASSY 234AD BCCCV BCCC 5
A7D BELL CRANK 9923F BCCCW BCCC 3
A7D LINK ASSY 9923J BCCCX BCCC 8
A7D THROTTLE QUADRANT ASSY 23ADA BCCCY BCCC 8
A7D THROTTLE LEVER 9923H BCCCZ BCCC 5
A7D ENGINE CONTROL ADAPTER 23ADD BCCT BCC 4
A7D ENGINE FUEL CONTROL CAM BOX 23CAJ BCCU BCC 5
A7D VALVE COLD START 23CAN BCCV BCC 0
A7D MAIN/MAN FUEL CONTROL DRAIN 23AFB BCCW BCC 2
A7D ENGINE FUEL VENT & DRAIN BCCX BC 300000005
A7D FUEL DRAIN TANK ASSY 239DA N BCCXA BCCX 3
A7D FUEL DRAIN LINE, ENGINE 239DB N BCCXB BCCX 5
A7D PRESSURE VENT LINE 239DC N BCCXC BCCX 1
A7D TANK/VENT MAST DRAIN LINE 239DD N BCCXD BCCX 3
A7D SEC. HOLDING TANK DRN VALVE 239DE N BCCXE BCCX 0
A7D COMB CHRR FUEL DRAIN VLV 231JJ N BCCXJ BCCX 3
A7DHP FUEL SHUTOFF VALVE DRAIN 23AEE BCCXU BCC 2
A7D DRAIN VALVE HOLD TANK 23CBE BCCXV BCCX 0
A7D VENT MAST DRAIN LINE 23CRD BCCXW BCCX 3
A7D PRESSURE / VENT LINE 23CFD BCCXX BCCX 1
A7D ENGINE FUEL DRAIN LINE 23CPR BCCXY BCCX 5
A7D TANK ASSY FUEL DRAIN 23CBA BCCXZ BCCX 3
A7DHP FUEL SHUTOFF VALVE 23CAH BCCY BCC 0
A7DLOW PRESSURE GOVERNOR 23CAG BCCZ BCC 2
A7D YAW ADVISORY LIGHT 44BCD BCEC FCE 1
A7D FUEL TRANSFER TUBES 10EA 23CAL BCS BC 9
A7D COMB CHAMBER FUEL DRAIN 23AEA RCT BCCX 3
A7D FUEL NOZZLES 10 EACH 23PFA BCU FC 1
A7D FUEL VALVE RELIEF DRAIN ST 23BFE BCV BCCX 2
A7D COMB. DRAIN VALVE SPRING 23BFD BCW BCCX 1
A7D COMB. DRAIN VALVE 23BFC BCX BCCX 3
A7D COMBUSTION CASE OUTER 23BFF BCY BC 4
A7D COMBUSTION LINER 10 FA 23BFB BCZ BC 1
A7D ENGINE THRUST TRANSMITTED BU B 1AAAAAAAA1
A7D LH ENGINE FRONT MOUNT 231ZA N BDAA BD 3
A7D RH ENGINE FRONT MOUNT 231ZB N BDAB BD 3
A7D LH FWD SPHRICL BRNG PLATE 231ZC N BDAC BD 1
A7D LH SPHERICAL BRNG BEARING 231ZD N BDAE BD 2
A7D LH FWD ENG MT TRUNION 231ZE N BDAF BD 3
A7D RH FWD SPHRICL BRNG PLATE 231ZF N BDAG BD 1
A7D RH TRUNION LOCK RING 231ZG N BDAG BD 1
A7D RH FWD SPHERICAL BEARING 231ZH N BDAH BD 2
A7D RH FWD ENG MOUNT TRUNION 231ZJ N BDAJ BD 3
A7D REAR LINK SUSPENSION ASY 231ZK N BDAK BD 2
A7D ENG REAR SUSPENSION BOLT 231ZL N BDAL BD 6

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A70	ENG REAR SUSPENSION LINK	2312M N	BDAM	BD	6
A70	REAR FR SUSPEN SUPPORT	2312N N	BDAN	BD	3
A70	LH SUPP. AIRFRAME TRUNION	235AC N	BDAP	BD	3
A70	AIRFRAME TRUNION RH	235AA N	HDAQ	BD	3
A70	RH ENGINE ATTACH BOLT	235AB N	RJAR	BD	0
A70	AIRFRAME ATTACHMENT BOLT	235BA N	BDBA	BD	5
A70	FRONT WASHER	235BB N	RDBB	BD	0
A70	REAR WASHER	235BC N	BDRC	BD	0
A70	AIRFRAME ATTACH NUT	235BD N	BDRD	BD	6
A70	REAR FRAME SUSPENSION SUPP.	23ACE	HDL	BD	3
A70	REAR COLLAR REAR SUSP	23ACD	BDM	BD	3
A70	FRONT COLLAR REAR ENG. SUSP	23ACC	BDN	BD	3
A70	ENGINE ATTACH BOLTS	23ACB	BUP	BD	0
A70	LH AFT REAR SUSPENSION ASSY	23ACA	BDQ	BD	2
A70	LH ENGINE MOUNT TRUNION	23ABE	RDR	BD	3
A70	TRUNION RETAINER PLATE	23ABC	RDS	BD	1
A70	LH SPHER. ENGINE MOUNT B*ENG	23ABE	RDT	BD	2
A70	LH TRUNION SUPPORT MOUNT	23ABA	BDU	BD	3
A70	ENGINE MOUNT TRUNION	23AAE	BDV	BD	3
A70	TRUNION RETAINER PLATE	23AAD	BDW	BD	1
A70	SPHERICAL TRUNION BEARING	23AAC	BDX	BD	2
A70	ENGINE ATTACH. BOLTS X EA	23AAB	BDY	BD	0
A70	RH TRUNION SUPPORT MOUNT	23AAA	BDZ	BD	3
A70	ENGINE FUEL FEED	BFA	BACG		AAAAAAAAAA
A70	ENGINE FUEL FEED	BFA	BACL		FAAAAAAAAA
A70	ENGINE FUEL FEED	BFA	BFX		FAAAAAAAAA
A70	ALTERNATE FUEL FEED SELECT	BFAA	BFEF		FAAAAAAAAA
A70	ALTERNATE FUEL FEED SELECT	BFAA	BFEA		AAAAAAAAAA
A70	ALTERNATE FEED SELECT	BFAA	BFCW		FAAAAAAAAA
A70	ALTERNATE FUEL FEED SELECT	BFAA	BFK		FAAAAAAAAA
A70	ALTERNATE FUEL FEED SELECT	BFAA	BFL		FAAAAAAAAA
A70	THROTTLE QUADRANT ASSY	234AA N	BFAA		0
A70	CONTROL ASSY	23ADA	BFAU		0
A70	PUSH-PULL CONTROL ASSY	46ABA	BFAV		0
A70	MAN FUEL SHUTOFF VALVE	46AFE	BFAW		0
A70	MAIN QUIK DIS-CONNECT	46AFK	BFAZ		3
A70	FUEL LINE CHECK VALVE	46AFH	BFAZ		0
A70	ENGINE FUEL LINE	46AFJ	BFAZ		3
A70	FUEL PRESS DIERNTL MAINING		BFB		AAAAAAAAAA
A70	FUEL VENTED		BFB		AAAAAAAAAA
A70	FUEL VENTED		BFB		F33333333
A70	FUEL VENTED		BFB		F33333333
A70	FUEL VENTED		BFB		F33333333
A70	FUEL VENTED		BFB		F33333333
A70	FUEL VENTED		BFB		F33333333
A70	FUEL VENTED		BFB		F33333333
A70	FUEL VENTED		BFB		F33333333
A70	FUEL VENT LINES/FITTINGS	994CR	BFBW		5
A70	FUSelage VENT MAST 2EA	9946Q	BFBX		8
A70	FWD FUSE TANK CHECK VALVE	46CAB	BFBY		0
A70	MID/AFT VENT CHECK VALVE	46CAB	BFBZ		0

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1234567890123456789012345678901234567890123456789012345678901234567890
A70 GRAVITY PRESSURE EMPLOYED BFBB BFB 000010000
A70 PUMPED PRESSURE DISTRIBUTED BFBC BFB 111111111
A70 PUMPED PRESSURE DISTRIBUTED BFBC BFB FAAAAAAAAA
A70 PUMPED PRESSURE DISTRIBUTED BFBC BFCJ FAAAAAAAAA
A70 PUMPED PRESSURE DISTRIBUTED BFBC BFCL FAAAAAAAAA
A70 COMBAT FLED SELECTED BFBD BFB FAAAAAAAAA
A70 SUMP TANK MOTIVE FLOW BFBE BFG 000000000
A70 SUMP TANK DUAL EJECTOR JT46AEF BFBEZ BFE A
A70 TANK MOTIVE FLOW TRANSFER BFBE BFB FAAAAAAAAA
A70 TANK MOTIVE FLOW TRANSFER BFBE BFCA SAAAAAAAAA
A70 TANK MOTIVE FLOW TRANSFER BFBE BFCJ FAAAAAAAAA
A70 TANK MOTIVE FLOW TRANSFER BFBE BFCL FAAAAAAAAA
A70 FUEL TRANSFER MANIFOLD 46BPE BFBEF BFB 8
A70 CHECK VALVE 46BRC BFBS BFB 1
A70 QUICK DISCONNECT 46BBB BFBEF BFB 3
A70 EMER WING XFER SEL VALVE 46BBA BFBEF BFB A
A70 BY-PASS XFER SEL VALVE 46BBA BFBEF BFB 4
A70 WING XFER SELECT VALVE 46BBA BFBEF BFB 3
A70 FUEL XFER SWITCH 46BDE BFBEF BFB 3
A70 FUEL CONTROL PANEL 46PDD BFBEF BFB 3
A70 FUEL XFER CONTROL 46PDC BFBEF BFB A
A70 AUTOMATIC FLOW TRANSFER BFBE BFBE BFBE 111111111
A70 THERMISTOR AFT TNK NO.2 46BDE BFBEF BFB A
A70 THERMISTOR RH FWD NO1 46PDA BFBEF BFB A
A70 EMERGENCY WING FUEL XFER BFBE K BFBE FAAAAAAAAA
A70 EMERGENCY WING FUEL XFER BFBE BFBE FAAAAAAAAA
A70 FUEL XFER SWITCH 46PDE BFBEF BFB A
A70 EMER WING XFER SEL VALVE 46BBA BFBEF BFB A
A70 FUEL QUANTITY INDICATED BFBE BFBE FAAAAAAAAA
A70 FUEL QTY IND SWITCH 46FBL BFBE BFBE 2
A70 SIMULATOR CIRCUIT CAPD 46FAH BFBE BFBE 0
A70 EXT FUEL QTY SIMULATOR 46FAG BFBE BFBE 0
A70 FUEL QTY PROBE/XMTR 4EA 46ERD BFBE BFBE 1
A70 LH FUEL COMPENSATOR 46FBH BFBE BFBE 2
A70 WING TNK XMTR CENTER AFT 46FBG BFBE BFBE 1
A70 WING TNK XMTR CENTER FWD 46FBF BFBE BFBE 1
A70 WING TNK AFT IND XMTR 2EA 46FRE BFBE BFBE 1
A70 WING TNK AFT QHD XMTR 2FA 46FBD BFBE BFBE 1
A70 WING TNK FWD IND XMTR 2FA 46FBC BFBE BFBE 1
A70 WING TNK FWD MID XMTR 2EA 46FBB BFBE BFBE 1
A70 WING TNK FWD QHD XMTR 2EA 46FBA BFBE BFBE 1
A70 MID TNK AFT QTY XMTR 2EA 46FAL BFBE BFBE 1
A70 AC FUEL QTY INDICATOR 46FAH BFBE BFBE 3
A70 COMPENSATOR FWD TANK 2EA 46FAG BFBE BFBE 1
A70 COMPENSATOR MAIN FUEL IND 46FAF BFBE BFBE 2
A70 UPPER AFT TANK QTY XMTR 46FAE BFBE BFBE 1
A70 MID-TNK FWD QTY XMTR 2EA 46FAD BFBE BFBE 1
A70 SUMP TANK QTY XMTR 46FAC BFBE BFBE 1
A70 FWD TANK AFT QTY XMTR 2EA 46FAB BFBE BFBE 1
A70 FWD TANK QTY XMTR 2 EACH 46FAA BFBE BFBE 1

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FLIGHT SAFETY PREDICTION TECHNIQUE

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 PILOT ACTION BFERL BFBH AAAAAAAAAA
A70 PILOT ACTION BFERL BFCB FAAAAAAAAA
A70 FUEL LOW WARNING BFERM BFERL 111111111
A70 LIGHT LOW LVL SUMP TANK 12DR0 BFBMV BFBM 2
A70 LIGHT LOW LVL FWD TANK 12DR0 BFBMW BFBM 2
A70 CNTRL DUAL THERM SENSING 46FCR BFERMX BFERM A
A70 SUMP TANK THERMISTOR 46FCC BFERMY BFERM 5
A70 LH FWD THERMISTOR NO.3 46FCA BFERMZ BFERM 5
A70 CONSTANT FUEL SUPPLY MAINTD BFC BFA AAAAAAAAAA
A70 EMERGENCY FUEL SUPPLIED BFC K BFC AAAAAAAAAA
A70 CHECK VALVE 46BFC BFC AU BFC 1
A70 MANIFOLD XFER FUEL TEF 46BEM BFC AV BFC 3
A70 FUEL CROSS XFER TUBE 46BFL BFC AW BFC 8
A70 SHUT OFF LEVER ASSY 46BED BFC AX BFC A
A70 MANUAL SHUT-OFF VALVE MF 46BEB BFC AY BFC 2
A70 MANUAL FUEL SELECT VALVE 46BFA BFC AZ BFC A
A70 FUEL FEED MODE SELECT BFCB BFAA FAAAAAAAAA
A70 FUEL FEED MODE SELECT BFCB BFER FAAAAAAAAA
A70 FUEL FEED MODE SELECT BFCB BFC SSSSSSSSSS
A70 FUEL FEED MODE SELECTED BFCB BFE FAAAAAAAAA
A70 ALT MODE INDICATED BFCBW BFCB 111111111
A70 ALT FEED CAUTION LIGHT 46BEK BFCBX BFCB A
A70 PUSH PULL CONT ASSY 46BLG BFCBY BFCB 5
A70 SELECTOR ASSY HANDLE 46BEF BFCBZ BFCB A
A70 FWD TANK TO SUMP FEED BFC BFE 111111111
A70 FWD TANK TO SUMP FEED BFC BFC F111111111
A70 FWD TANK/SUMP LINES/FITT 9946N BFCX BFC 5
A70 LH FWD TANK CHK VALVE 46AAB BFCY BFC 1
A70 RH FWD TANK CHK VALVE 46ACB BFCZ BFC 1
A70 MID-FUSELAGE TO SUMP FEED BFC BFE 111111111
A70 MID-FUSELAGE TO SUMP FEED BFC BFE F111111111
A70 MID-TANK TO SUMP LINES 9946J BFC DX BFC 5
A70 LH MID-FUSELAGE CHK VALVE 46ABB BFC DY BFC 1
A70 RH MID-FUSELAGE CHK VALVE 46AAB BFC DZ BFC 1
A70 WING TANK TO SUMP XFER BFC BFE 111111111
A70 WING TANK-SUMP LINES FITT 9946W BFC EZ BFC 5
A70 AFT TO SUMP TANK XFER BFC F BFE 111111111
A70 AFT TO SUMP XFER FITTINGS 9946E BFC FY BFC 5
A70 FUEL XFER LINES/FITTINGS 9946D BFC FZ BFC 3
A70 FWD FUEL CONTAINED BFC BFG FAAAAAAAAA
A70 FWD FUEL CONTAINED BFC BFG AAAAAAAAAA
A70 LH FWD TANK LINES/FITTING 9946M BFC GS BFC 5
A70 LH FWD TANK BAFFLES 46AAF BFC GT BFC 0
A70 LH FWD TANK RESTRICTOR 46AAA BFC GU BFC 1
A70 LH FWD FUEL TANK 46AAC BFC GV BFC 5
A70 RH FWD TANK LINES/FITTING 9946L BFC GW BFC 5
A70 RH FWD TANK BAFFLES 46ACF BFC GX BFC 0
A70 RH FWD TANK RESTRICTOR 46ACA BFC GY BFC 1
A70 RH FWD FUEL TANK 46ALC BFC GZ BFC 5
A70 AFT MOTIVE FLOW BFC J BFC 111111111

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12345678901234567890123456789012345678901234567890123456789012345678901234567890			
A70 AFT TANK MOTIVE FLOW		BFCJ	BFL 8888888888
A70 MOTIVE FLOW INPUT LINE	9946C	BFCJX	BFCJ 8
A70 MOTIVE FLOW X-OVER LINE	9946B	BFCJY	BFCJ 2
A70 AFT TANK JET EJECTORS 2EA46BGA		BFCJZ	BFCJ 5
A70 WING MOTIVE FLOW		BFCL	BFCE F555555555
A70 WING MOTIVE FLOW		BFCL	BFK 777777777
A70 MOTIVE FLOW INPUT LINE	9946H	BFCLX	BFCL 8
A70 RIGHT JET EJECTOR PUMP	46BAR	BFCLY	BFCL 5
A70 LEFT JET EJECTOR PUMP	46BAR	BFCLZ	BFCL 5
A70 WING FUEL CONTAINED		BFCM	BFCE AAAAAAAAAA
A70 WING FUEL CONTAINED		BFCM	BFK AAAAAAAAAA
A70 WING TANK RAFFLING	46BAJ	BFCMW	BFCM 0
A70 WING TANK CHECK VALVE	46BAQ	BFCMX	BFCM 1
A70 WATER DRAIN VALVE	46BAH	BFCMY	BFCM 0
A70 WING TANK INSTALLATION	46BAQ	BFCMZ	BFCM A
A70 AFT FUEL CONTAINED		BFCN	BFCE AAAAAAAAAA
A70 AFT FUEL CONTAINED		BFCN	BFL AAAAAAAAAA
A70 AFT TANK RAFFLES	46BCH	BFCNX	BFCN 0
A70 AFT TANK CHECK VALVE 2EA	46BCC	BFCNY	BFCN 1
A70 AFT FUEL TANK	46BCD	BFCNZ	BFCN A
A70 MID-FUSE FUEL CONTAINED		BFCP	BFCD AAAAAAAAAA
A70 MID-TANK LINES/FITTINGS	9946K	BFCPV	BFCP 8
A70 RH MID-TANK RAFFLES	46ADE	BFCPW	BFCP 0
A70 RH MID FUEL TANK	46ADA	BFCPX	BFCP 5
A70 LH MID-TANK RAFFLES	46ABE	BFCPY	BFCP 0
A70 LH MID FUEL TANK	46ABA	BFCPZ	BFCP 5
A70 EXTERNAL FUEL STORED /XFER		BFD	BFC S001000000
A70 EXTERNAL FUEL STORED /XFER		BFD	BFCG F111111111
A70 EXTERNAL FUEL STORED /XFER		BFD	BFCM F111111111
A70 EXTERNAL FUEL STORED /XFER		BFD	BFCN F111111111
A70 EXTERNAL FUEL STORED /XFER		BFD	BFCP F111111111
A70 STATION 1 FUEL STORED		BFDA	BFD 222222222
A70 MAU-12 ELECTRIC HARNESS	75BEC	BFDAV	BFDA 1
A70 MAU-12 SUPPORT	75EBA	BFDAW	BFDA 5
A70 MAU-12 RACK	75ACG	BFDAX	BFDA 8
A70 EXT TANK 300 GAL	46FBO	BFDAY	BFDA A
A70 PYLON DISCNX VALVE	46FAE	BFDAZ	BFDA 2
A70 STATION 3 FUEL STORED		BFD	BFD 222222222
A70 MAU-12 ELECTRIC HARNESS	75BDC	BFDV	BFD 1
A70 MAU-12 SUPPORT	75BDA	BFDV	BFD 5
A70 MAU-12 RACK	75ACD	BFDV	BFD 9
A70 EXT TANK 300 GAL	46FBO	BFDV	BFD A
A70 PYLON DISCNX VALVE	46FAE	BFDV	BFD 2
A70 STATION 6 FUEL STORED		BFD	BFD 222222222
A70 MAU-12 ELECTRIC HARNESS	75BDC	BFDV	BFD 1
A70 MAU-12 SUPPORT	75BDA	BFDV	BFD 5
A70 MAU-12 RACK	75ACD	BFDV	BFD 8
A70 EXT TANK 300 GAL	46FBO	BFDV	BFD A
A70 PYLON DISCNX VALVE	46FAE	BFDV	BFD 2
A70 STATION 8 FUEL STORED		BFD	BFD 222222222

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1234567890123456789012345678901234567890123456789012345678901234567890
A70 MAU-12 ELECTRIC HARNESS 75LEC BFDDV BFDD 1
A70 MAU-12 SUPPORT 75PHA BFDDW BFDD 5
A70 MAU-12 RACK 75FCO BFDDX BFDD 8
A70 EXT TANK 300 GAL 46FEC BFDDY BFDD A
A70 PYLON OSCNX VALVE 46FAE BFDDZ BFDD 2
A70 AIRCRAFT RE-FUELED BFE BFEC F22222222
A70 AIRCRAFT RE-FUELED BFE BFEC F22222222
A70 AIRCRAFT RE-FUELED BFE BFEC F22222222
A70 AIRCRAFT RE-FUELED BFE BFEC F22222222
A70 AIRCRAFT RE-FUELED BFE BFEC F22222222
A70 AIRCRAFT RE-FUELED BFE BFEC F22222222
A70 GROUND REFUEL BFE BFEC 000000000
A70 EXT TANK FILLER 46FA BFEB BFEB 1
A70 EXT TANK STOP CHK VALVE 46EAD BFEB BFEB 1
A70 EXT TANK STOP CHK VALVE 46FAC BFEB BFEB 1
A70 EXT TANK STOP CHK VALVE 46FAB BFEB BFEB 1
A70 EXT TANK STOP CHK VALVE 46FAA BFEB BFEB 1
A70 GND FUEL MAN CHECK VALVE 46FCE BFEB BFEB 2
A70 AFT TANK FILLER LANYARD 9346P BFEB BFEB 5
A70 AFT TANK FILLER CAP 46FCH BFEB BFEB 0
A70 WING TANK FILLER CAP 46BAE BFEB BFEB 0
A70 MAN DEFUEL CHK VALVE OPEN 46AFM BFEB BFEB 0
A70 MAN DEFUEL CHK VALVE CLSD 46AFL BFEB BFEB 0
A70 SECOND MANUAL PRECHK VALV 46AFD BFEB BFEB 2
A70 PRIMARY MANUAL PRECHK VAL 46AFC BFEB BFEB 2
A70 AIR REFUELED BFE BFEB 000000000
A70 AIR REFUEL CONTROLLED BFE BFEB 000000000
A70 MA-2 PROBE ACTUATOR 46E8B BFEC BFEC A
A70 MA-2 REFUEL VALVE SELECT 46DEA BFEC BFEC A
A70 AMPLIFIER SWITCH 46CCM BFEC BFEC 5
A70 INDUCTION COIL 46CCL BFEC BFEC 3
A70 REFLY AMPLIFIER 46CCK BFEC BFEC 5
A70 SIGNAL AMPLIFIER 46CCJ BFEC BFEC 0
A70 RE.SET SWITCH 46CCH BFEC BFEC 5
A70 REFUEL ADVISORY LIGHT 46CCF BFEC BFEC 1
A70 DIS-CNX PRESSURE SWITCH 46CCE BFEC BFEC 1
A70 SLIPWAY CLOSED IND SWITCH 46CCD BFEC BFEC 0
A70 ON.LOAD READY SWITCH 46CCC BFEC BFEC 1
A70 NOZZLE CONTACT SWITCH 46CCB BFEC BFEC 8
A70 REFUEL CONTACT SWITCH 46CCA BFEC BFEC 8
A70 AIR REFUEL MECH. ENABLED BFED BFEB 000000000
A70 REFUELING ACTUATION BFED LHN 000000000
A70 MA-2 REFUEL CHECK VALVE 46LAD BFED BFED 1
A70 MA-2 AR JOINT SWIVEL 46DAC BFED BFED 5
A70 MA-2 REFUEL PROBE ASSY 46DAH BFED BFED 5
A70 MA-2 NOZZLE ASSY 46LAA BFED BFED A
A70 AR DOOR ACTUATING SWIVEL 46C8E BFED BFED 5
A70 LOCK VALVE ACTUTR SOLND 46C8D BFED BFED 8
A70 HYD RECEPTALE LOCK ACTUTR 46C8C BFED BFED 8
A70 MANUAL SELECTOR VALVE 46C8B BFED BFED A

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AD-A054 486

ARINC RESEARCH CORP ANNAPOLIS MD

F/G 1/2

DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS. VOLUME 4. A-7D A--ETC(U)

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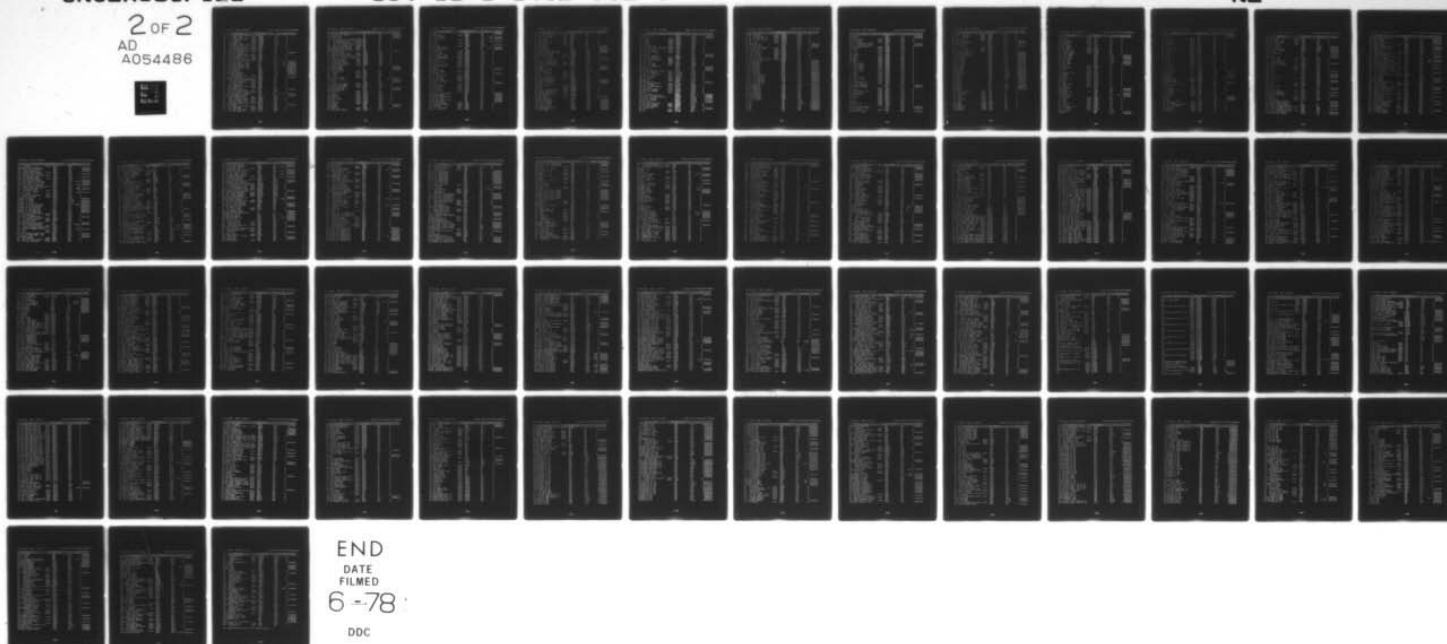
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PG0095.JIR1 DATE = 10/06/75

FLIGHT SAFETY PREDICTION TECHNIQUE

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A70	RECEPTACLE DOOR ACTUATOR	46GFA	BFEDT	BFED	8
A70	RECEPTACLE DOOR	46GAC	BFEDU	BFED	5
A70	RECEPTACLE CHECK VALVE	46GAB	BFEDV	BFED	1
A70	AR RECEPTACLE	46GAA	BFEDW	BFED	A
A70	BELL CRANK	46GDC	BFEDX	BFED	5
A70	PUSH-PULL CONTROL	46GDR	BFEDY	BFED	5
A70	RECEPTACLE RELEASE HANDLE	46GDA	BFEDZ	BFED	8
A70	EXT TNK FLOAT SW 4EA	46FER	BFEW	BFE	1
A70	WING TNK FLOAT VALVES 2EA	46HAA	BFEY	BFE	3
A70	FUEL/DEFUEL MANIFOLD	46AFA	BFFY	BFF	8
A70	PRESSURE FUELING SHUTOFF	46AFB	BFFZ	BFE	5
A70	EXT TANKS PRESSURIZED		BFF	BFE	888888888
A70	GRND AIR SUPPLY FILTER	46ECF	BFFV	BFF	0
A70	GRND AIR SUPPLY FITTING	46ECL	BFFW	BFF	0
A70	12 PSI REGULATOR	46ECC	BFFX	BFF	5
A70	PRND PYLON DISCONX VALVE	46ECR	BFFY	BFE	2
A70	SOLENOID SEL VALVE DC	46ECA	BFFZ	BFF	8
A70	WING FUEL ROUTED TO ENGINE		RFK	BFCA	RFL 555555555
A70	AFT FUEL ROUTED TO ENGINE		RFK	BFCA	555555555
A70	NORMAL FUEL SUPPLY & DIST		RFQ	BFCA	111111111
A70	NORMAL FUEL SUPPLY & DIST		RFQ	BFCA	FAAAAAAAAAA
A70	NORMAL FUEL SUPPLY & DIST		RFQ	BFCA	FAAAAAAAAAA
A70	FUEL SCAVENGED		RFQA	BFCA	111111111
A70	FUEL SCAVENGED		RFQA	BFCA	FAAAAAAAAAA
A70	SUMP FUEL SCAVENGED		RFQA	BFCA	333333333
A70	FWD FUEL SCAVENGED		RFQA	BFCA	333333333
A70	FWD TNK/MID TNK LINES	9946T	BFQCZ	BFQA	5
A70	MID-FUEL SCAVENGED		BFQD	BFQA	333333333
A70	MID-AFT TNK LINES/FITTINGS	9946U	BFQDZ	BFQD	5
A70	SUMP FUEL LINES/FITTINGS	9946A	BFQI	BFQ	5
A70	BAFFLING INSTALLATION	46AEH	BFQV	BFQ	0
A70	SUMP TANK BAFFLES	46AFG	BFQW	BFQ	0
A70	SUMP CHECK VALVE	46AEC	BFQX	BFQ	1
A70	ACCELERATION STOP VALVE	46AEB	BFQY	BFQ	3
A70	MAIN SUMP TANK	46AEA	BFQZ	BFQ	A
A70	SUMP OVERFLOW RECYCLED		BFR	BFCG	777777777
A70	SUMP TO FWD VENT LINES	9946S	BFRX	BFCB	5
A70	SUMP VENT LINES & FITTINGS	9946S	BFRX	BFR	A
A70	AIRCRAFT GROSS WT REDUCED		BFX	FA	K BA AAAAAAAAAA
A70	EXTERNAL TANKS JETTISON		BFXA	RFX	000000500
A70	4A-12 EJECTOR RACKS	75ACC	BFXAW	RFXA	5
A70	SALVO JETTISON SWITCH	75DCA	BFXAX	RFXA	8
A70	SELECT JETTISON SWITCH	75ICE	BFXAY	RFXA	5
A70	ARMAMENT CONTROL PANEL	75EBA	BFXAZ	RFXA	3
A70	4A-12 PACK HARNESS 4EA	75HDC	BFXAZA	RFXA	8
A70	FUEL DUMPED		BFXB	BFX	000000500
A70	FUEL DUMP LINES/FITTINGS	9946V	BFXBW	RFXB	5
A70	FUEL DUMP MAST	11DAQ	BFXBX	RFXB	1
A70	RIGHT FUEL DUMP VALVE	46CCA	BFXBY	RFXB	5
A70	LEFT FUEL DUMP VALVE	46CCA	BFXBZ	RFXB	5

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FLIGHT SAFETY PREDICTION TECHNIQUE

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 ENG BLEED AIR SUPPLIED BX BBAH 22222222
A70 HP BLEED AIR BX FAX 11111111
A70 LP BLEED AIR BX ECK 11111111
A70 7TH STG AIR BLEED MANIFOLD 231EN N BXA BX 3
A70 3LD.VLV.SHAFT & LINK ASSY 231EP N BXB BX 5
A70 HPC BLEED AIR VALVE 231FQ N BXC BX 4
A70 STG 7 AIR SUPPLY BRACKET 231JC N BXD BX 1
A70 STG 7 AIR SUPPLY PIPE 231KN N BXE BX 7
A70 LO-PRESS BLEED MANIFOLD 9923B HXX BX 5
A70 HI-PRESS BLEED MANIFOLD 9923A BXY BX 6
A70 PIP SUPPLY PIPE 7TH STAGE 23BAC BXZ BX 7
A70 ENGINE ANTI-ICE BZXZ HCBH A 00000000
A70 ANTI-ICING TUBE FRONT 23FAJ BZXZK BZXZ 3
A70 INDICATOR RESET SWITCH 23FAH BZXZS BZXZ 0
A70 ANTI-ICE O/PRESSURE INDICTR SW 23FAG BZXZT BZXZ 0
A70 ANTI-ICE O/PRESSURE INDICTR 23FAF BZXZU BZXZ 0
A70 ANTI-ICING LIGHT 23FAE BZXZV BZXZ 0
A70 ANTI-ICING SWITCH 23FAD BZXZW BZXZ 1
A70 ANTI-ICING HARNESS 23FAC BZXZX BZXZ 5
A70 ANTI-ICING RECEPTACLE 23FAH BZXZY BZXZ 5
A70 ANTI-ICING VALVE 23FAA BZXZZ BZXZ 4
A70 COMM/NAV/IDENT C 11111111
A70 COMMUNICATIONS CA C E 000000110
A70 AUDIO PROCESSOR CAA CA 55555555
A70 CODER/DECODER CAA CAA 1
A70 CONTROL 69AEO CAAB CAA 1
A70 RELAY 69ACC CAAC CAA 1
A70 MOUNT 69AEO CAAD CAA 0
A70 REC AUDIO ASSY 64AFD CAAF CAA 1
A70 UHF COMMUNICATIONS CAB CAC 11111111
A70 CONTROL CAEA CAB 11111111
A70 CONTROL CABA BZX 11111111
A70 CONTROL UNIT C7916 63ADG CARAA CAB 1
A70 CONTROL UNIT C6816 63AGD CABAB CAB 1
A70 UHF VOLUME CONTROL 63AAO CAHAC CAB 5
A70 TRANSMIT/RECEIVE CABB CAB 11111111
A70 TRANSMIT/RECEIVE CABB DB 11111111
A70 REC/TRANS 63AAO CARRA CAB 1
A70 MOUNT 63ABG CABBB CAB 0
A70 DIPLEXER 63AFD CABBC CAB 5
A70 ANTENNA 11CEE CABBD CAB 3
A70 SPECT GEN 63AAF CABBE CAB 4
A70 POWER SUPPLY 63AAH CABBF CAB 4
A70 TUNER 63AAJ CABBG CAB 4
A70 AMPLIFIER 63AAD CABBH CAB 4
A70 CHASSIS 63AAK CABBJ CAB 1
A70 RECEIVE CAB C 11111111
A70 TRANSMIT CABD CABH 22222222
A70 POWER AMP 63AAF CABDA CAB 4
A70 UHF SELECT CONTROL 64AAO CABDB CAB 4

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FLIGHT SAFETY PREDICTION TECHNIQUE

00000000111111111222222222333333333344444444445555555555666666666677777777778	12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 COOLING	CARE 8888888888
A70 AIR COOLER	63AKO CABEA CARE A
A70 ARC-51 RECEIVE	CARF CARC CRME 111111111
A70 ARC-51 RECEIVE	CARF CRMB K CRME AAAAAA
A70 PREAMP	63AAA CABFA CARF A
A70 MAIN REC	CARG CAHF CARH 111111111
A70 DUMMY	5499A CARGA CARG 0
A70 GUARD	CABH CAHF 111111111
A70 REC ASSY	63AAG CABHA CABH A
A70 VHF COMMUNICATIONS	CAC CA K CAB AAAAAA
A70 TRANSMIT/RECEIVE	CACA CAC AAAAAA
A70 REL/TRANS	62AFO CACAA CACA 8
A70 TUNER ASSY	62AAA CACAB CACA 2
A70 RF OSC ASSY	62AAF CACAC CACA 2
A70 CRYSTAL REF ASSY	62AAC CACAD CACA 2
A70 RF CONTROL ASSY	62AAE CACAE CACA 2
A70 POWER SUPPLY ASSY	62AAQ CACAF CACA 3
A70 CHASSIS	62AAR CACAG CACA 1
A70 GEAR BOX ASSY	62AAS CACAH CACA 2
A70 MOUNT	62ABO CACAJ CACA 0
A70 ANTENNA FEED ASSY	62ACO CACAK CACA 5
A70 ANTENNA COUPLER	62AFO CACAM CACA 8
A70 ANTENNA	110RF CACAN CACA 3
A70 CONTROL	CACB CAC AAAAAA
A70 CONTROL UNIT	62ABO CACBA CACB A
A70 VOLUME CONTROL	64AAO CACBB CACB 5
A70 TRANSMIT	CACD CACA 22222222
A70 OSC BUFFER ASSY	62AAK CACDA CACD 2
A70 RF AMP ASSY	62AAL CACDB CACD 2
A70 150 AMP ASSY	62AAM CACDC CACD 2
A70 AMP/MOD ASSY	62AAP CACDD CACD 2
A70 VHF SELECT CONTROL	64AAO CACDE CACA A
A70 RECEIVE	CACE CACA AAAAAA
A70 HOMER DET	62AAF CACEA CACE 0
A70 IF ATTN ASSY	62AFG CACFB CACE 2
A70 AUDIO AMP	62AAH CACEC CACE 2
A70 AF AMP ASSY	62AAJ CACED CACE 2
A70 AUDIO MIXER	62AAN CACEE CACE 2
A70 IF AMP	62AAD CACEF CACE 2
A70 INTERNAL AUDIO SYSTEM	CAD CAA AAAAAA
A70 INTERNAL AUDIO	CAD CBM 11111111
A70 INTERNAL AUDIO SYSTEM	CAD CBN 11111111
A70 INTERNAL AUDIO	CAD CBP 11111111
A70 INTERNAL AUDIO SYSTEM	CAD CCA 11111111
A70 INTERNAL AUDIO	CAD MAAT AAAAAA
A70 PILOTS ICS LEAD	64AAA CADA CAD 3
A70 ICS VOLUME CONTROL	64AAO CADAA CAD 8
A70 CONNECTOR	96AAC CADB CAD A
A70 AUDIO RELAY ASSY	64AGC CADBA CAD 1
A70 CKT CARD ASSY	64ACA CADBB CAD 1

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FLIGHT SAFETY PREDICTION TECHNIQUE

00000000111111111122222222223333333333444444444455555555556666666666777777777788888888889999999999				
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890				
A70 ISO TRANS PANEL A233	6664A	CA0BC	CA0	1
A70 ISO TRANS PANEL A234	6664B	CA0BD	CA0	5
A70 BLACK AUDIO ASSY	64A1C	CA0BL	CA0	2
A70 MIKE SWITCH	64A1B	CA0C	CA0	5
A70 MASK (MIKE)	66A1B	CA0D	CA0	2
A70 HELMET (HEADSET)	66A1A	CA0E	CA0	5
A70 KEYING RELAY	6664C	CA0F	CA0	5
A70 ICS STATION	64A00	CA0G	CA0	0
A70 NAVIGATION		CA	C	E
A70 GROUND TRACK		CAAA	CAAFB	001222150
A70 GROUND TRACK		CAAA	CAAX	FAAAAAAAAA
A70 GROUND TRACK/DT VELOCITY		CAAAA	CAAA	000010000
A70 GROUND TRACK/DT VELOCITY		CAAAA	CAAB	AAAAAAAAAA
A70 TACTICAL COMPUTER	73BAC	CAAAAA	CAAAA	A
A70 TAC COMP CONTROL	73BFD	CAAAAB	CAAAA	A
A70 TAC COMP MOUNT	73BFC	CAAAAC	CAAAA	0
A70 GROUND TRACK VELOCITY		CAAB	CAAFD	AAAAAAAAAA
A70 GROUND TRACK VELOCITY		CAAB	CAAFDD	FAAAAAA
A70 HORIZ SITUATION IND	71AFD	CAAAAX	CAAA	2
A70 PROJ MAP DISPLAY UNIT	73CAF	CAAAAY	CAAA	1
A70 SIGNAL DATA CONVERTER	73CFD	CAAAAZ	CAAA	1
A70 BEARING		CAAB	CAAX	000111100
A70 COMPUTED BEARING		CAABA	CAABZX	111111111
A70 COMPUTED BEARING		CAABA	CAAFB	FAAAAAAAAA
A70 TAC COMPUTER	73BFD	CAAB	CAABA	A
A70 TAC COMP CONTROL	73BFC	CAAB	CAAB	A
A70 TAC COMP MOUNT	73BFC	CAAB	CAAB	0
A70 HSI	71AFD	CAAB	CAAB	2
A70 PROJ MAP DISPLAY UNIT	73CAF	CAAB	CAAB	1
A70 SIG DATA CONVERTER	73CFD	CAAB	CAAB	1
A70 BEARING ATTENUATION		CAABYX	CAAB	111111111
A70 BEARING ATTENUATION		CAABZX	CAABYX	111111111
A70 HEADING		CAAC	CAAX	001111100
A70 HORIZ SITUATION IND	71AFD	CAACAA	CAAX	1
A70 ADI	71AFD	CAACAB	CAAX	1
A70 ADI	71AFD	CAACAC	CAAX	1
A70 PROJ MAP DISPLAY UNIT	73CAF	CAACAD	CAAX	1
A70 SIGNAL DATA CONVERTER	73CFD	CAACAF	CAAX	1
A70 HUD DISPLAY UNIT	73CAF	CAACAF	CAAX	1
A70 HUD SIG DATA PROCESS	73BFD	CAACAG	CAAX	1
A70 HUD MOUNT	73BFD	CAACAH	CAAX	0
A70 STANDBY HEADING		CAACH	CAAC	K CAAX
A70 STDY COMPASS	51AAB	CAACBA	CAACB	5
A70 PRESENT POSITION		CAAD	CAABA	FAAAAAAAAA
A70 PRESENT POSITION		CAAD	CAAFB	AAAAAAAAAA
A70 PRESENT POSITION		CAAD	CAAX	000000000
A70 INERTIAL/DT MODES		CAADA	CAAD	111111111
A70 INERTIAL MODE		CAAD	CAAD	111111111
A70 DOPPLER/AIR MASS MODE		CAAD	CAAD	111111111
A70 DOPPLER MODE		CAAD	CAAD	111111111

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FLIGHT SAFETY PREDICTION TECHNIQUE

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1234567890123456789012345678901234567890123456789012345678901234567890
A70 AIR MASS MODE          CRADE      CRADC      111111111
A70 DORAN                  CRADE      CRAD       000000000
A70 RECEIVER               710AO     CRADFA     CRADE      8
A70 MOUNT                  710BO     CBADFB     CRADE      0
A70 COUPLER                710CO     CHADFC     CRADE      5
A70 ANTENNA                710DO     CHADFD     CRADE      5
A70 DIPLEXER              710EO     CRADFE     CRADE      5
A70 SIG DATA CONV        730RO     CRADV      CRAD       1
A70 PROJECTED MAP DISPLAY UNIT 73GAO     CRADW      CRAD       1
A70 TAC COMP MOUNT        730CO     CBADX      CRAD       0
A70 TAC COMP CONTROL      730RC     CHADY      CRAD       A
A70 TACTICAL COMPUTER     730AO     CRADZ      CRAD       A
A70 DISTANCE              CRAE      CHX        000001000
A70 COMPUTED DISTANCE     CBAEA     CRAEX      111111111
A70 SIG DATA CONVERTER   730RO     CBAEB      CRAE       1
A70 HORIZ SITUATION IND   71AFO     CRAEC      CRAE       2
A70 PROJ MAP DISP UNIT    73GAO     CBAED      CRAE       1
A70 TAC COMP              730AO     CRAFE      CRAEA      A
A70 THE COMP CONT        730RO     CHAEF      CHAEA      A
A70 TAC COMP MOUNT       730CO     CBAEG      CHAEA      0
A70 DISTANCE ATTENUATION  CRAEX     CBAF       111111111
A70 STEERING              CBAF     CHX        0001A1180
A70 EDC STEERING          CBAFA     CBAF       000001110
A70 FLIGHT DIRECTOR COMPUTER 71AFO     CBAFAA     CBAFA      A
A70 CKT CARD PWR SP       71AFA     CBAFAAA    CBAFA      A
A70 CKT CARD BEAM SENSOR  71AFB     CBAFAAB    CBAFA      A
A70 CKT CARD PITCH       71AFC     CBAFAAC    CBAFA      A
A70 CKT CARD ROLL        71AFD     CBAFAAD    CBAFA      A
A70 FOC MOUNT            71AGO     CBAFAB     CBAFA      0
A70 HSI                   71AHO     CBAFAC     CBAFA      3
A70 TAC COMP STEER        CBAFB     CBAF       000001000
A70 THUMBWHEEL ENCODER   234AB N CBAFBB     CBAFB      1
A70 HUD DISP UNIT        73FAC     CBAFBD     CBAFB      1
A70 HUD SIG DATA PROCESS 73ERO     CBAFBE     CBAFB      1
A70 HUD MOUNT            73ECO     CBAFBE     CBAFB      0
A70 TACTICAL COMPUTER    730AO     CBAFBG     CBAFB      A
A70 TAC COMP CONTROL     730RO     CBAFBH     CBAFB      A
A70 MOUNT                730CO     CBAFBJ     CBAFB      0
A70 STEERING             CBAFD     CBAF      8 000050000
A70 COMPUTED FLT PATH ANGLE CBAFDA     CBAFD      CBAFD      AAAAAA
A70 COMPUTED VERTICAL VELOCITY CBAFDB     CBAFDA      CBAFD      55555555
A70 INS/AUC DERIVED      CBAFDC     CBAFDB      CBAFD      11111111
A70 INS/DOPP DERIVED     CBAFDD     CBAFDB      CBAFD      11111111
A70 AUC DERIVED          CBAFDE     CBAFDB      CBAFD      11111111
A70 TACTICAL COMP MOUNT   730CO     CBAFDS     CBAFD      0
A70 TAC COMP CONTROL     730RO     CBAFDT     CBAFD      A
A70 TACTICAL COMPUTER    730AO     CBAFDU     CBAFD      A
A70 ILS STEERING         CBAFX     CBAFA      0000001A0
A70 AD1                   71AGO     CBAFXA     CBAF      5
A70 AD1                   71AGO     CBAFXB     CBAF      5

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FLIGHT SAFETY PREDICTION TECHNIQUE

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FLIGHT SAFETY PREDICTION TECHNIQUE

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7DCONTROL CBKA CRK AAAAAAAAAA
A7DCONTROL CBKA CRKV FAAAAAAAAA
A7D CONTROL BOX 73FCO CBKAA CBKA A
A7D MECH ASSY 73FCA CBKAB CBKA A
A7D PANEL,FRONT 73FCB CBKAC CBKA 0
A7DPROCESSING/POWER SUPPLY CBKB CRK AAAAAAAAAA
A7DPROCESSING/POWER SUPPLY CBKB CRKW FAAAAAAAAA
A7D PWR SUPPLY/ADAPTER 73FDO CBKBA CBKB 8
A7D MODULE 73FDA CBKBB CBKB 2
A7D CARD 73FDB CBKBC CBKB 2
A7D CARD 73FDC CBKBD CBKB 2
A7D MODULE 73FDE CBKBE CBKB 2
A7D MODULE 73FDE CBKBF CBKB 2
A7D MODULE 73FDE CBKBG CBKB 2
A7D CARD 73FDG CBKBH CBKB 2
A7D CARD 73FDH CBKBJ CBKB 2
A7D MODULE 73FDJ CBKAK CBKB 2
A7D AMP 73FDK CBKBL CBKB 3
A7D POWER SUPPLY 73FDM CBKBM CBKB 3
A7D POWER SUPPLY 73FDN CBKBN CBKB 3
A7D POWER SUPPLY 73FDP CBKBP CBKB 3
A7D POWER SUPPLY 73FDQ CBKBO CBKB 3
A7D POWER SUPPLY 73FDR CBKBR CBKB 3
A7D MODULE,RITE 73FDS CBKBS CBKB 2
A7D BOARD 73FDT CBKBT CBKB 2
A7D BOARD 73FDU CBKBU CBKB 2
A7D MOUNT 73FEO CBKBV CBKB 0
A7D BATTERY PACK 73FFO CBKBW CBKB 1
A7D BATT CHG ASSY 73FFA CBKBX CBKB 1
A7D BOARD 73FFB CBKBY CBKB 2
A7D BATT/HEATER ASSY 73FFC CBKBZ CBKB 1
A7D POWER SUPPLY 73FDL CBKBZA CBKB 3
A7DSENSING/ALIGNMENT CRKC CRK AAAAAAAAAA
A7DSENSING/ALIGNMENT CBKC CRKU FAAAAAAAAA
A7D TVU 73FAO CBKCA CBKC A
A7D MODULE 73FAD CBKCB CBKC A
A7D GIMBAL ELECT ASSY 73FAF CBKCC CBKC A
A7D PWR SUPPLY 73FAF CBKCD CBKC A
A7D SWITCH ASSY 73FAG CBKCE CBKC A
A7D FAN 73FAJ CBKCF CBKC A
A7D PLENUM 73FAK CBKCG CBKC J
A7D AMP 73FAT CBKCH CBKC A
A7D AMP 73FAU CBKCJ CBKC A
A7D AMP 73FAV CBKCK CBKC A
A7D COMP BOARD 73FAW CBKCL CBKC A
A7D MOUNT 73FBO CBKCM CBKC A
A7DRECT HEADING SENSING CBKD CBAX FAAAAAAAAA
A7DRECT HEADING SENSING CBKD CBKC AAAAAAAAAA
A7D TRANSMITTER 73FGO CBKDA CBKD A
A7DINERTIAL SENSING CBKE CBKC AAAAAAAAAA

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880495.J101 DATE = 10/06/75

FLIGHT SAFETY PREDICTION TECHNIQUE

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1000000001111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 ACCEL X-Y AXIS 73FAP CBKEA CBKE A
A70 GYRO X-Y AXIS 73FAP CBKEC CBKE A
A70 GYRO Z AXIS 73FAQ CBKED CBKE A
A70 ACCEL FLECT 73FAH CBKEF CBKE A
A70 GYRO FLECT 73FAS CBKLF CBKE A
A70 PLATE JAM ALIGNMENT CBKE CBKC AAAAAA
A70 INTERNAL ALIGN CBKG CBKE 55555555
A70 DUMMY 9555C CBKGA CBKG 5
A70 TAC COMP ALIGN CBKH CBKE 55555555
A70 TAC COMP 73PAG CBKHA CBKH A
A70 TAC COMP CONTROL 73PEC CBKHB CBKH A
A70 TAC COMP MOUNT 73PEC CBKHC CBKH 0
A70 NOT ALIGNED WARNING CBKU CBFA 11111111
A70 INTERNAL ALIGN WARNING CBKV CBFA 11111111
A70 INS FAIL WARNING CBKW CBFA 11111111
A70 INS HEADING CBKX CBAAA F11111111
A70 INS HEADING CBKX CBABA AAAAAA
A70 INS HEADING CBKX CBADC AAAAAA
A70 INS HEADING CBKX CBAX 99999999
A70 INS HEADING CBKX CBH FAAAAA
A70 INS HEADING CBKX CBKC 22222222
A70 VELOCITIES CBKY CBAAA FAAAAA
A70 VELOCITIES CBKY CBADA AAAAAA
A70 VELOCITIES CBKY CBADS AAAAAA
A70 VELOCITIES CBKY CBADF FAAAAA
A70 VELOCITIES CBKY CBADF FAAAAA
A70 VELOCITIES CBKZ CBADF FAAAAA
A70 ATTITUDE CBKZ CBADF FAAAAA
A70 ATTITUDE CBKZ CBAPX AAAAAA
A70 ATTITUDE CBKZ CBAPZ AAAAAA
A70 ATTITUDE CBKZ CBL AAAAAA
A70 ATTITUDE CBKZ CBL AAAAAA
A70 ATTITUDE CBKZ CBL AAAAAA
A70 DOPPLER CBL CBADA SAAAAA
A70 DOPPLER CBL CBAX FAAAAA
A70 DOPPLER CBL CBLY FAAAAA
A70 DOPPLER CBL CBIZ FAAAAA
A70 RADAR REC/TRANS 73LAC CBLA CBL A
A70 POWER SUPPLY 73DAA CBLB CBL A
A70 MODULATOR 73DAB CBLC CBL A
A70 MODULE 73DAC CBLE CBL 2
A70 MODULE 73DAD CBLE CBL 2
A70 REGULATOR 73DAE CBLF CBL A
A70 MODULE 73DAF CBLG CBL A
A70 LOGIC 73DAG CBLH CBL A
A70 LOGIC 73DAJ CBLJ CBL 2
A70 MODULE 73DAK CBLK CBL 2
A70 LOCAL OSC 73DAL CBLM CBL 2
A70 MODULE 73DAH CBLM CBL 2
A70 CONTROL 73DAM CBLN CBL 2

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FLIGHT SAFETY PREDICTION TECHNIQUE

00000000011111111122222222223333333333334444444444555555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890

A7D LOGIC	73DAN	CBLP	CBL	2	
A7D MODULE	73EAP	CBLQ	CBL	2	
A7D PWR SUPPLY	73DAQ	CBLR	CBL	2	
A7D PWR SUPPLY	73DAR	CBLS	CBL	2	
A7D MODULE	73DAS	CBLT	CBL	2	
A7D PWR SUPPLY	73DAT	CBLU	CBL	2	
A7D PWR SUPPLY	73DAU	CBLV	CBL	2	
A7D MICROWAVE ASSY	73DAV	CBLW	CBL	2	
A7D LOGICAL OSC	73DAW	CBLWA	CBL	2	
A7D CRYSTAL SWITCH	73EAX	CBLWB	CBL	2	
A7D CRYSTAL SWITCH	73EAY	CBLWC	CBL	2	
A7D MEMORY WARNING		CBLX	DZFB		111111111
A7D GROUND SPEED		CBLY	CBADA		FAAAAAAAAAA
A7D GROUND SPEED		CBLY	CBADD		AAAAAAAAAAAA
A7D GROUND SPEED		CBLY	CBAFDD		111111111
A7D DRIFT ANGLE		CBLZ	CBAAA		111111111
A7D DRIFT ANGLE		CBLZ	CBADA		FAAAAAAAAAA
A7D DRIFT ANGLE		CBLZ	CBADD		AAAAAAAAAAAA
A7D MIXER	73DAZ	CBLZA	CBL	2	
A7D MAGNETROL	73DA1	CBLZB	CBL	2	
A7D CIRCULATOR	73DA2	CBLZC	CBL	2	
A7D FRAME	73DA3	CBLZD	CBL	0	
A7D AMP	73DA4	CBLZE	CBL	2	
A7D UNDERVOLT ASSY	73DA5	CBLZF	CBL	2	
A7D ANTENNA	73DEG	CBLZG	CBL	8	
A7D MODULE	73DEA	CBLZH	CBL	8	
A7D MODULE	73DEB	CBLZJ	CBL	9	
A7D CONTROL IND	73DEC	CBLZK	CBL	A	
A7D BOARD	73DEA	CBLZL	CBL	2	
A7D BOARD	73DEB	CBLZM	CBL	2	
A7D FRONT PANEL	73DEC	CBLZN	CBL	0	
A7D MOUNT	73DEO	CBLZP	CBL	0	
A7D WAVEGUIDE	73DEO	CBLZQ	CBL	A	
A7D DEF SYSTEM		CBM	CBMZ		AAAAAAAAAAAA
A7D CONTROL		CBMA	CBM		AAAAAAAAAAAA
A7D CONTROL BOX	63REC	CBMAA	CBMA	A	
A7D RECEIVE		CBMP	CBM		AAAAAAAAAAAA
A7D PRIMARY REC		CBME	CABC	K CABC	AAAAAAAAAAAA
A7D PRIMARY REC		CBMF	CBMB		111111111
A7D RECEIVER	63ECO	CBMEA	CBME	A	
A7D MODULE	63ECA	CBMEB	CBME	A	
A7D MODULE	63ECB	CBMEC	CBME	A	
A7D MOUNT	63EFO	CBMED	CBME	0	
A7D RELAY AMP	63BAO	CBMEE	CBME	A	
A7D ANTENNA	63BEO	CBMEF	CBME	A	
A7D RELAY AMP MOUNT	63BLO	CBMEG	CBME	J	
A7D REC CONTROL	63FEC	CBMEH	CBME	A	
A7D REC MOUNT	63BFO	CBMEJ	CBME	0	
A7D HEARING ADF		CBMZ	CBARZX		111111111
A7D TACAN		CBN	CBNW		AAAAAAAAAAAA

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FLIGHT SAFETY PREDICTION TECHNIQUE

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000000001111111122222222223333333344444444555555556666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890
A70TACAN CBN CBNX AAAAAAAA
A70TACAN CBN CBNY AAAAAAAA
A70 REC/TRANS 71EAG CBNA CBN 3
A70 AMP 71EAF CBNA CBN A
A70 MULTIPLIER 71EAF CBNC CBN A
A70 MODULATOR 71EAG CBND CBN A
A70 PRESELECTION 71EAF CBNE CBN A
A70 ANT 71EAL CBNE CBN A
A70 ANT SELECTOR 71EAF CBNG CBN A
A70 MODULE 71EAG CBNH CBN A
A70 POWER SUPPLY 71EAF CBNJ CBN A
A70 DECODER 71EAF CBNK CBN A
A70 MODULE 71EAF CBNL CBN A
A70 MODULE 71EAL CBNM CBN A
A70 MODULE 71EAF CBNN CBN A
A70 DECODER 71EAF CBNP CBN A
A70 MODULE 71EAF CBNQ CBN A
A70 MODULE 71EAF CBNF CBN A
A70 MODULE 71EAF CBNS CBN A
A70 MODULE RF 71EAS CBNSA CBN A
A70 REC MOUNT 71EAF CBNT CBN 0
A70 CONTROL 71EAF CBNU CBN A
A70 ANT SWITCH 71EAF CBNV CBN A
A70 HEARING TACAN CBNW CHABZX 11111111
A70 DOPPLER ANT 71EAF CBNWX CBN 5
A70 DISTANCE CBNX CHAEX 11111111
A70 LOWER ANT 71EAF CBNXX CBN 5
A70 DEVIATION CBNY CHAFZ AAAAAAAA
A70 BLOWER 71EAF CBNYY CBN A
A70 BLOWER MOUNT 71EAF CBNZ CBN 0
A70 FLUSH ANTENNA 71EAF CBNZA CBN 5
A70 ILS CBP CHAFX AAAAAAAA
A70 MKR CON/GLIDE SLOPE REC 71EAF CBPA CBP 6
A70 CONTROL 71EAF CBPB CBP 8
A70 ANTENNA 71EAF CBPC CBP 5
A70 LOCALIZER REC 71EAF CBPE CBP 8
A70 LOCALIZER ANT ARRAY 71EAF CBPF CBP A
A70 CAPACITOR 71EAF CBPG CBP 1
A70 CAPACITOR 71EAF CBPH CBP 1
A70 ANTENNA 71EAF CBPP CBP 5
A70 RADAR CBQ CBQX AAAAAAAA
A70 RADAR CBQ CBQY AAAAAAAA
A70 RADAR CBQ CBQZ AAAAAAAA
A70 ANTENNA RECEIVER 73AAG CBQA CBQ 8
A70 TRANSMITTER 73ABG CBQB CBQ 8
A70 PWR SUPPLY/PROGRAMMER 73ACG CBQC CBQ 8
A70 AIR NAV COMPUTER 73ADG CBQD CBQ 8
A70 INDICATOR 73AEG CBQE CBQ 5
A70 SWEEP GEN 73AFG CBQF CBQ 8
A70 CONTROL 73AGG CBQG CBQ 8

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FLIGHT SAFETY PREDICTION TECHNIQUE

00000000111111111122222222223333333344444444555555555566666666667777777777				
12345678901234567890123456789012345678901234567890123456789012345678901234567890				
A70 FAULT LOCATOR SET	73AH0	CBQH	CHQ	0
A70 SET MOUNT	73AJ0	CBQJ	CBQ	1
A70 BLOWER/DUCT ASSY	73AK0	CBQK	CBQ	2
A70 SET CONTROL ANT	73AL0	CHOL	CBQ	8
A70 SET CONTROL	73AM0	CHOM	CBQ	8
A70 RADAR NAV INFO		CBQX	CBABZX	F111111111
A70 RADAR NAV INFO		CHQX	CBAFX	F111111111
A70 RADAR BOMBING INFO		CBQY	MAAB	AAAAA
A70 STEER COMMANDS		CBQZ	CBABD	AAAAA
A70 NAV ATTEN		CBX	CB	111111111
A70 IDENTIFICATION		CC	C	000000000
A70 IFF		CCA	CC	009999990
A70 CONTROL		CCA	CCA	AAAAA
A70 CONTROL UNIT	65ABC	CCAA	CCAA	A
A70 CONTROL PANEL	65AJC	CCAB	CCAA	3
A70 SWITCH (EJECTION)	65AGC	CCAC	CCAA	0
A70 RECEIVE/TRANSMIT		CCAB	CCA	AAAAA
A70 RECEIVER/TRANSMITTER	65AFO	CCAB	CCAB	8
A70 MOUNT	65ALC	CCAB	CCAB	0
A70 DUPLEXER	65AFC	CCAB	CCAB	A
A70 ANTENNA	110BE	CCABD	CCAB	3
A70 TEST		CCAC	LCA	000000000
A70 TESTER	65AFC	CCAC	CCAC	A
A70 MODE 4		CCAD	CCAB	222222222
A70 MODE 4		CCAD	DZX	FAAAAAA
A70 MODES 1,2,3A		CCAE	CCAB	666666665
A70 DUMP	9999B	CCAE	CCAE	0
A70 MODE C		CCAF	CCAB	222222222
A70 CODE/DECODE		CCAG	CCAD	AAAAA
A70 COMPUTER	65A00	CCAGA	CCAD	A
A70 MOUNT	65ALC	CCAGB	CCAD	0
A70 SHOCK MOUNT	65AFC	CCAGC	CCAD	0
A70 RADAR BEACON		CCB	CC	001111110
A70 CONTROL		CCBA	CCB	AAAAA
A70 CONTROL UNIT	72BCC	CCBA	CCBA	A
A70 RECEIVE/TRANSMIT		CCBB	CCB	AAAAA
A70 RECEIVER/TRANSMITTER	72BA0	CCBB	CCBB	8
A70 ANTENNA SWITCHING		CCBC	CCB	AAAAA
A70 DUPLEXER	72BBO	CCBCA	CCBC	A
A70 ANTENNA	72BDO	CCBCB	CCBC	5
A70 CABLE ASSY	72LFO	CCBC	CCBC	6
A70 INFORMATION & DISPLAYS		D		0AAAAA
A70 FLIGHT STATUS PRESENTED		DA	D	011111130
A70 AIRCRAFT SPEED CONVEYED		DAB	DX	0A10101A0
A70 TRUE AIR SPEED DISPLAYED		DABB	DAB	C51111110
A70 TRUE AIR SPEED INDICATOR	73CJO	DABBZ	DABB	5
A70 INDICATED AIRSPEED DISPLAY		DABC	DDZA	222222222
A70 MACH/AIRSPEED INDICATOR	51AEC	DABCZ	DABC	5
A70 PITOT/STATIC SENSING		DABD	DAB	SAAAAA
A70 PITOT/STATIC SENSING		DABD	DABC	FAAAAAA

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FLIGHT SAFETY PREDICTION TECHNIQUE

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000000000111111111222222222333333333444444444555555555666666666777777777
1234567890123456789012345678901234567890123456789012345678901234567890
A70 PITOT STATIC SENSING DABD UCL FAAAAAAAAA
A70 PITOT SENSING DABD UCS SAAAAAAAAA
A70 PITOT SENSING DABD UCU SAAAAAAAAA
A70 PITOT PRESSURE SENSED DABE DABD AAAAAAAAAA
A70 PITOT TUBE 51A1A DABLZ DABF A
A70 STATIC PRESSURE SENSED DABF DABC AAAAAAAAAA
A70 STATIC PRESSURE SENSED DABF DACC AAAAAAAAAA
A70 STATIC PRESSURE SENSED DABF DADC AAAAAAAAAA
A70 DUMMY 9999D DABFA DABF 0
A70 PITOT STATIC TUBE ICE FREE DABG DABE A AAAAAAAAAA
A70 PITOT HEATER RELAYS 51AFB DABGZ DABG 5
A70 ALTITUDE DISPLAYED DAC DA F 0011114A0
A70 PRESSURE ALTITUDE DISPLAYED DACA DAC 00041A110
A70 ALTIMETER AAU-19A 51A1B DACA7 DACA 8
A70 CORRECTED PRESS ALT DISPLAY DABG DACA DACC 111111111
A70 UNCOR.PRESS ALT DISPLAY DACC K DABG 883988388
A70 ALTIMETER VIBRATOR ASSY 51ACC DACCZ DACC 2
A70 AUXILIARY PRESS ALT DISPLAY DABF DACA 000111000
A70 CANN PRESS ALTIMETER 41100 DABFZ DABF 5
A70 ABSOLUTE ALTITUDE CONVEYED DABG DAC 000010210
A70 LOW ALT WARNING LIGHT 12FFD DABGY DABG 1
A70 HEIGHT INDICATOR APN/141 72A00 DABGZ DABG 8
A70 RADAR ALTIMETER CONTROLLED DABJ DABG AAAAAAAAAA
A70 SELF TEST ASSY 99720 DABJX DABJ 1
A70 LOW ALT CLEARANCE CONTROL 9972B DABJY DABJ 5
A70 POWER UNIT 9972A DABJZ DABJ A
A70 RADAR ALTITUDE DACK CBAFD AAAAAAAAAA
A70 RADAR ALTITUDE DACK CBAFX AAAAAAAAAA
A70 RADAR ALTITUDE DACK CBQ 111111111
A70 SIG. RELIABILITY ASSY 72AFC DACKX DACK 5
A70 POWER SUPPLY 72AHB DACKY DACK A
A70 ALTITUDE ASSY 72AFA DACKZ DACK 8
A70 RADAR ALT SIGNAL PROCESSED DACL DABG AAAAAAAAAA
A70 RADAR ALT SIGNAL PROCESSED DACL DACK FAAAAAAAAA
A70 RCVR / XMIT MOUNT 72AFD DACLZ DACL 1
A70 ALTITUDE MODE CONTROLLED DABM DACL AAAAAAAAAA
A70 ALTITUDE SWITCH 72AGB DABMY DABM A
A70 SWITCH DRIVE CIRCUIT 72AGA DABMZ DABM 7
A70 TIME COMPARED DABN DACL AAAAAAAAAA
A70 ANTENNA SWITCH UNIT 72AFG DABNY DABN A
A70 COMPARATOR 72AAA DABNZ DABN A
A70 RADAR ALT POWER SUPPLY DABP DACL AAAAAAAAAA
A70 XMIT/RCV POWER SUPPLY 72AAB DABPP DABP 8
A70 RF ENERGY TRANSMITTED DABQ DABN AAAAAAAAAA
A70 TRANSMIT ANTENNA 72AFD DABQX DABQ 5
A70 TRANSMITTER CAVITY 72AAF DABQY DABQ A
A70 MODULATOR 72AAB DABQZ DABQ 7
A70 RF ENERGY RECEIVED DABR DABN AAAAAAAAAA
A70 RECEIVER ANTENNA 72ACC DABRX DABR 5
A70 RECEIVER CAVITY 72AAF DABRY DABR A

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FLIGHT SAFETY PREDICTION TECHNIQUE

00000000011111111122222222233333333344444444455555555566666666677777777773
12345678901234567890123456789012345678901234567890123456789012345678901234567890

A7D RECEIVER	72AAD	DACKZ	DACK	7	
A7D AERODYNAMIC SITUATION		DAD	DA		0000100A0
A7D ANGLE OF ATTACK CONVEYED		DADA	DAD		000000010
A7D G-FORCES DISPLAYED		DADB	DAD		000050000
A7D NORMAL ACCELEROMETER	51AAA	DADBZ	DADB	5	
A7D RATE CLMB/DESC. DISPLAYED		DADC	DAD		000000000
A7D VERT.VELOCITY INDICATOR	51AED	DADCZ	DADC	5	
A7D STALL WARNING GIVEN		DADF	DADA		111111111
A7D RUDDER PEDAL SHAKER	51ADJ	DADFZ	DADF	8	
A7D APPR /LAND AOA DISPLAY		DADG	DADA		AAAAA
A7D CRUISE ANGLE OF ATTK DISPL		DADH	DAB K DABC		AAAAA
A7D CRUISE ANGLE OF ATTK DISPL		DADH	DADA		F55555555
A7D CRUISE ANGLE OF ATTK DISPL		DADH	DADG K DAUJ		AAAAA
A7D ANGLE/ATTACK INDICATOR	51ADA	DADHZ	DADH	5	
A7D ENHANCED VISUAL AOA DISPLAY		DADJ	DADG		DADH 555555555
A7D AOA INDEXER DISPLAY		DADK	DADJ		DADL 111111111
A7D AOA INDEX & HOOD	51ADE	DADKZ	DADK	8	
A7D AOA HEAD-UP DISPLAY		DADL	DADJ		DADK 111111111
A7D HUD MOUNT	73FCC	DADLX	DADL	0	
A7D SIGNAL DATA PROCESSOR	73EDO	DADLY	DADL	A	
A7D HUD DISPLAY UNIT	73EAO	DADLZ	DADL	A	
A7D ANGLE OF ATTACK		DADM	CBADE		AAAAA
A7D ANGLE OF ATTACK		DADM	CRAFDB		S11111111
A7D ANGLE OF ATTACK		DADM	CRAFDD		FAAAAAA
A7D ANGLE OF ATTACK		DADM	CBAFDE		FAAAAAA
A7D ANGLE OF ATTACK DATA XMIT		DADM	DAB K DABC		SAAAAAA
A7D ANGLE OF ATTACK DATA XMIT		DADM	DADA		SAAAAAA
A7D ANGLE OF ATTK DATA XMIT		DADM	DADF		FAAAAAA
A7D ANGLE OF ATTK DATA XMIT		DADM	DADH		FAAAAAA
A7D ANGLE OF ATTK DATA XMIT		DADM	DADK		FAAAAAA
A7D ANGLE OF ATTK DATA XMIT		DADM	DADL		FAAAAAA
A7D ROLL CDU CUT.OUT RELAYS	51ADG	DADMY	DADM	3	
A7D AOA TRANSDUCER	51ADB	DADMZ	DADM	A	
A7D ANGLE OF ATTACK SENSED		DADN	DADM		AAAAA
A7D AOA GROUND TEST SWITCH	51ADH	DADNX	DADN	0	
A7D AOA VANE CIRCUITS	9951B	DADNY	DADN	8	
A7D AOA VANE ASSY	9951A	DADNZ	DADN	8	
A7D AIRCRAFT ATTITUDE DISPLAY		DAE	DAD E		0000000A0
A7D STRY ATTITUDE DISPLAYED		DAEA	DAE K DAEB		777777777
A7D GYRO FAST ERECT SWITCH	9951C	DAEAY	DAEA	2	
A7D REMOTE ATTITUDE INDICATOR	51BAC	DAEAZ	DAEA	5	
A7D PRIMARY AC TURN/ATT DISPLA		DAEB	DAE		DAEA 111111111
A7D ADI	71AJC	DAEBY	DAEB	A	
A7D ADI	71ACD	DAEBZ	DAEB	A	
A7D STRY ATTITUDE SENSE & XMIT		DAEF	DAEA		AAAAA
A7D STRY ATTITUDE SENSE & XMIT		DAEF	DFEZ		111111111
A7D ATTITUDE SIGNAL		DAEF	FEKG		AAAAA
A7D SHOCK MOUNTS	51BAD	DAEFW	DAEF	3	
A7D GYRO FAST ERECT CIRCUIT	9951D	DAEFX	DAEF	5	
A7D GYRO RATE SWITCHING	51BAB	DAEFY	DAEF	A	

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FLIGHT SAFETY PREDICTION TECHNIQUE

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D BYRD RATE SWITCHING 51RAA DAF FZ DAF F A
A7D GRND MAINT. DATA DISPLAYED DB D 000000000
A7D TIMER TOTALIZING METER 232FJ N DBA DB 1
A7D OVERSPEED INDICATOR 232EB N DBF DB 1
A7D ACCELER. TRANSDUCER 51AB5 DBY DB 1
A7D ACCELER. INDICATOR 51ABA DBZ DB 1
A7D INDICATED AIRSPEED 00ZA DBA 002222000
A7D HUD DISPLAY 00ZB 007A 111111111
A7D HUD MOUNT 73EC0 007BX 00ZB 0
A7D SIGNAL DATA CONVERTER 73FPC 00ZBY 00ZB A
A7D DISPLAY UNIT 73LAC 00ZBZ 00ZB A
A7D ATTENUATION INFORMATION/015 DX DA 111111111
A7D CRITICAL INFO DISPLAYED DY DA AAAAAAAAAA
A7D FIRE WARNING CONVEYED DYZ X AAAAAAAAAA
A7D FIRE WARNING LIGHT 9949A DYZW DYZ A
A7D FIRE SIGNAL / TEST SWITCH 49AAC DYZX DYZ 1
A7D CONTROL UNIT 49AAB DYZY DYZ 5
A7D CABLE ASSY HEAT SENSING 49AAA DYZZ DYZ A
A7D MCC MANAGEMENT DATA DISPLAY DZ DA AAAAAAAAAA
A7D ADVISORY DATA DISPLAYED DZA DZ 000000000
A7D WHEELS/FLAP STATUS DZAB EABR 010000010
A7D WHEELS/FLAP STATUS DZAB LAB 010000010
A7D WHEEL/FLAP WARRG LIGHT 12L0H DZABZ DZAB 7
A7D CIRCUIT BOARD K11275-01 12L0D DZAV DZA 7
A7D CIRCUIT BOARD K11272-01 12DCC DZAW DZA 7
A7D HARNESS ASSY AD/CAUTION 12DCR DZAX DZA 5
A7D INDICATOR ADVISORY/CAUTION 12DCA DZAY DZA 3
A7D ADVISORY PANEL LIGHTS 10FA448GC DZAZ DZA 1
A7D ENGINE MGT DATA DISPLAYED DZB DZ AAAAAAAAAA
A7D DUMMY 9959G DZBA DZ 0
A7D ELAPSED TIME INDICATOR 91AFB DZBFYZ DB A
A7D AC STORES MGT DATA DISPLAY DZC DZ 005999500
A7D FUEL STORES MGT DATA DISPLAY DZCC DZC 111111111
A7D FUEL FLOW DATA DISPLAYED DZCCB DZCC AAAAAAAAAA
A7D DUMMY 999CF DZCCBA DZCC 0
A7D FUEL FEED INFO DISPLAYED DZCCC BACD 111111111
A7D MANUAL FUEL CAUTION LIGHT 12DFQ DZCCGY DZCC 5
A7D FWD ADVISORY PANEL 44FCD DZCCXZ BEEC 1
A7D OPERATING STATE DATA DISPLAY DZE DZ AAAAAAAAAA
A7D CANOPY STATUS DISPLAYED DZEA EAFZ 1 EAF 888888888
A7D CONTROL POSITION DISPLAYED DZEB DZE AAAAAAAAAA
A7D WING POSITION INDICATED DZEBY DZEB 1 GC 100000000
A7D WING FOLD CAUTION LIGHT 12FBD DZEBYZ DZEBY 5
A7D A/C BRAKE STATUS/POSITION DZFC DZE AAAAAAAAAA
A7D DUMMY 9999E DZECA DZEC 0
A7D ARREST GEAR STATUS DISP DZEX GAAB 111111111
A7D HOOK HANDLE WARNING LIGHT 13HDB DZEXY DZEX 1
A7D HOOK DOWN CAUTION LIGHT 12FBD DZEXZ DZEX 5
A7D CANOPY LATCHED LIGHT 12AB5 DZFY DZEA 5
A7D A/C AUX SYSTEM DATA DISPLAY DZF DZ AAAAAAAAAA

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FLIGHT SAFETY PREDICTION TECHNIQUE

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00000000111111112222222222333333333344444444445555555555666666666677777777778

FLIGHT SAFETY PREDICTION TECHNIQUE

1234567890123456789012345678901234567890123456789012345678901234567890				
A70 CANOPY LOCKED		EAFFZ	EAFF	AA1AAAAAA
A70 VOLT PIVOT	12AAC	EAFFZA	EAFFZ	A
A70 HANDLE CANOPY RELEASE	12ABA	EAFFZB	EAFFZ	2
A70 NORMAL AIR/PRESSURE		EAG	EAB	EAC 055555550
A70 GROUND COOLING		EAH	EAB	000000000
A70 SOCKET, GROUND COOLING	41AEA	EAHA	EAB	A
A70 VALVE, CHECK	41AFB	EAMH	EAB	1
A70 TEMP/PRESSURE CONTROL		EAJ	EAG	AAAAAAA
A70 TEMPERATURE CONTROL		EAL	EAJ	555555555
A70 AUTO/MANUAL SELECT	41ACB	EALA	EAL	3
A70 VALVE ASSY, TEMP. CONTROL	41ACA	EALB	EAL	7
A70 CABIN TEMP THERMOS. VALVE	41AFC	EALC	EAL	1
A70 PRESSURE CONTROL		EAM	EAJ	AAAAAAA
A70 CABIN PRESS. SWITCH	41ACB	EAMA	EAM	A
A70 REGULATOR, AIR PRESS.	41ECA	EAMB	EAM	1
A70 VALVE, CABIN SAFETY	41ECC	EAMC	EAM	A
A70 UNCONDITIONED AIR MIX/DIST		EAN	EAF	AAAAAAA
A70 CONDITIONED AIR MIX/DIST		EAN	EAG	AAAAAAA
A70 VALVE, FLOW CONTROL	41AAU	EANA	EAN	A
A70 DUCT/VALVE ASSY	41ACE	EANB	EAN	0
A70 VALVE, CHECK	41ACF	EANC	EAN	2
A70 SEAL CANOPY AIR INLET	41ACG	EAND	EAN	0
A70 AUTO CONTROL		EAP	EAL	EAQ 111111111
A70 SENSOR, DUCT TEMP.	41ACC	EAPA	EAP	1
A70 AUTO TEMP. CONTROL	41ACB	EAPB	EAP	7
A70 SENSOR, CABIN TEMP.	41ACK	EAPC	EAP	9
A70 MANUAL CONTROL		EAQ	EAL	K EAQ AAAAAAAA
A70 MANUAL TEMP. CONTROL	41ACB	EAQA	EAQ	A
A70 RAM AIR DIST		EAS	EAW	06AAAAA60
A70 RAM AIR DIST		EAS	ECH	06AAAAA60
A70 DUMMY	9999H	EASA	EAS	0
A70 REFRIGERATED AIR SUPPLY/DIST		EAT	EAN	AAAAAAA
A70 REFRIGERATED AIR SUPPLY/DIST		EAT	EBH	AAAAAAA
A70 REFRIGERATED AIR SUPPLY/DIST		EAT	EEC	AAAAAAA
A70 TURBINE, COOLING	41AAC	EATA	EAT	A
A70 SEPARATOR, WATER	41AAI	EATH	EAT	2
A70 VALVE, SEP., ANTI ICE	41AAM	EATC	EAT	2
A70 THERMOSTAT, COMP. INLET	41AAK	EATD	EAT	2
A70 SCREEN, ANTI ICE	41AAX	EATE	EAT	1
A70 TRANSMITTER, TEMP. LIMIT	41AGC	EATF	EAT	2
A70 HEAT EXCHANGER	41AAB	EATG	EAT	A
A70 CONTROL AIR SUPPLY/DIST		EAU	EAD	AAAAAAA
A70 CONTROL AIR SUPPLY/DIST		EAU	EAG	SAAAAAAAA
A70 CONTROL AIR SUPPLY/DIST		EAU	EAJ	FAAAAAAAA
A70 CONTROL AIR SUPPLY/DIST		EAU	EAY	FAAAAAAAA
A70 CONTROL AIR SUPPLY/DIST		EAU	ERG	FAAAAAAAA
A70 CONTROL AIR SUPPLY/DIST		EAU	EFD	EAW 111111111
A70 CONTROL AIR SUPPLY/DIST		EAU	EFF	AAAAAAA
A70 CONTROL AIR SUPPLY/DIST		EAU	EGC	SAAAAAAAA
A70 CONTROL AIR SUPPLY/DIST		EAU	EGF	FAAAAAAAA

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FLIGHT SAFETY PREDICTION TECHNIQUE

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0000000011111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 VALVE, CONTROL AIR 41ARA EAUJ EAU A
A70 MANIFOLD, CONTROL AIR 41ARC EAU EAU A
A70 VALVE, RELIEF 41APE EAUC EAU 1
A70HOT AIR SUPPLY/DIST EAV EAF AAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EAV FAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EAT SAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EAV FAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EAY FAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EPL FAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EFD SAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EFE AAAAAAAAAA
A70HOT AIR SUPPLY/DIST EAV EGC SAAAAAAAAA
A70 MANIFOLD, HOT AIR 9941R EAVA EAV A
A70HEAT REMOVAL EAW EAT AAAAAAAAAA
A70HEAT REMOVAL EAW EFD K EAU AAAAAAAAAA
A70 HEAT EXCHANGER 41AAR EAWA EAW 6
A70 DUCT, INLET 41AAE EAWB EAW A
A70 DUCT, EXHAUST 41AAF EAWC EAW A
A70HP BLEED AIR DISTRIBUTION EAX EAU FAAAAAAAAA
A70HP BLEED AIR DISTRIBUTION EAX EAV AAAAAAAAAA
A70HP BLEED AIR DISTRIBUTION EAX EBU SAAAAAAAAA
A70HP BLEED AIR DISTRIBUTION EAX EFF SAAAAAAAAA
A70 VALVE ASSY, PRESS LIMIT 41AAA EAXA EAV A
A70 DUCT, BLEED AIR FIXED 41AAD EAXB EAX A
A70 DUCT, HP BLEED 41AAR EAXC EAX A
A70 DUCT, GIMBAL 41AAS EAXU EAX A
A70RAM AIR AUGMENTATION EAY EAW 8400000048
A70RAM AIR AUGMENTATION EAY ECH 8400000049
A70 VALVE, EJECTOR AIR 41AAP EAYA EAY 7
A70 VALVE, EJECTOR DUMP 41AAV EAYB EAY A
A70 LANDING GEAR DOWN EAZ EAY 9900000099
A70LEFT AVICS EQUIP COOLING EBA CBCE AAAAAAAAAA
A70LEFT AVIONICS EQUIP COOLING EBA CRKC AAAAAAAAAA
A70MANIFOLD, LH 9941C ERAA ERA 2
A70SWEEP GEN COOLING FBB CBQ AAAAAAAAAA
A70MANIFOLD, SWEEP GEN 41AGE EUBA EBB A
A70CAMERA BAY ENVIRONMENT EBC MR 111111111
A70RIGHT AVICS EQUIP COOLING EBD CA S555555555
A70RIGHT AVICS EQUIP COOLING EBD CARE FAAAAAAAAA
A70RIGHT AVICS EQUIP COOLING EBD CACA FAAAAAAAAA
A70RIGHT AVICS EQUIP COOLING EBD CRBG AAAAAAAAAA
A70MANIFOLD, RH 41AGR EBD EBD 2
A70CAMERA BAY AIR MIX/DIST. EBE FRC AAAAAAAAAA
A70DUCT 41AHA EBEA EBE 2
A70VALVE, CHECK 41AHD EBB EBE 1
A70VALVE, TEMP CONTROL 41AHB EBEC EBE 5
A70LEFT AMBIENT AIR COOLING EBG CRKB 111111111
A70LEFT AMBIENT AIR COOLING EBG CCA 111111111
A70EQUIPMENT AIR SUPPLY/DIST. EBR EBA AAAAAAAAAA
A70EQUIPMENT AIR SUPPLY/DIST. EBR EBB AAAAAAAAAA

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0000000001111111111222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70EQUIPMENT AIR SUPPLY/DIST. EBN AAAAAA
A70EQUIPMENT AIR SUPPLY/DIST. EBN AAAAAA
A70DUCT 41ACA ERHA EBN 2
A70LEFT RAM AIR COOLING EBJ ERG 011111110
A70SCOP, LH 41FAA EBJA ERJ 1
A70LEFT FAN COOLING EBK ERG A1111111A
A70FAN, LH 41FAH EBKA EKK A
A70SWITCH 41FAP EBKH ERK 7
A70RIGHT FAN COOLING EBL ERP A1111111A
A70FAN, RH 41FAF EBLA ERL A
A70SWITCH 41FAH EBLH ERL 7
A70RIGHT RAM AIR COOLING ERM ERP 011111110
A70SCOP, RH 41FAE ERMA ERM 1
A70FAN ACTIVATION EBN ERK AAAAAA
A70FAN ACTIVATION EBN ERL AAAAAA
A70SWITCH, DIFF. 41FAC EBNB ERN 5
A70RELAY 41FAC EBNB ERN 5
A70RIGHT AMBIENT AIR COOLING EBP CAA 111111111
A70RIGHT AMBIENT AIR COOLING EBP CERF 111111111
A70RIGHT AMBIENT AIR COOLING EBP CRL 111111111
A70RIGHT AMBIENT AIR COOLING EBP CRMF 111111111
A70RIGHT AMBIENT AIR COOLING EBP CBN 111111111
A70RIGHT AMBIENT AIR COOLING EBP CBP 111111111
A70RADAR PRESSURIZATION EBP CBO 000000000
A70REGULATOR 41FAA ERQA ERQ 7
A70DESICCATOR 41FAF ERQH ERQ 0
A70VALVE 41FAC ERQC ERQ A
A70 LOW PRESSURE BLEED AIR ECA ERF AAAAAA
A70CUN PURGE ECR MC 000000000
A70 PURGE AIR ECC ECH AAAAAA
A70 VALVE, PURGE AIR 41FAC ECCA ECC A
A70 PURGE DOOR OPEN ECD ECB AAAAAA
A70 DOOR 41FAA ECDA ECD 1
A70 VALVE 41FAA ECDF ECD A
A70 CYL. ASSY 41FAB ECDC ECD 5
A70 SWIVELS 41FEC ECDD ECD A
A70 SWITCH, INTERLOCK 74JFC ECDE ECC A
A70 RESTRICTOR 41FAC ECDF ECD 3
A70AUX. AIR SUPPLY/DIST. ECE ECA AAAAAA
A70AUX. AIR SUPPLY/DIST. ECE ECC AAAAAA
A70AUX. AIR SUPPLY/DIST. ECE ECH AAAAAA
A70 TEMPERATURE CONTROL ECE ECH AAAAAA
A70 THERMOSTAT 41CDD ECGA ECG 5
A70 VALVE, TEMP CONT 41CBH ECGB ECG A
A70HEAT REMOVAL ECH ECE AAAAAA
A70 HEAT EXCHANGER 41AAB ECHA ECH 4
A70 LP BLEED AIR DIST ECK ECH AAAAAA
A70 DUCTS, LP BLEED FIXED 41CAA ECKA ECK 9
A70 DUCT, MOTION COMPENSATOR 41CAF ECKB ECK 9
A70 COUPLINGS 41CAC ECKC ECK 9

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00000000111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 DUCT,LP BLFFD,ENG.CMPT. 41CAD ECKD FCK 9
A70 DUCT,GIMBAL ENG CMPT. 41CAF ECKE FCK 9
A70 OXYGEN ED EX 001A5A000
A70 OXYGEN DIST EDA FD AAAAAAAAAA
A70 MASK 96AAB EDAA EDA 1
A70 CONNECTOR 91BAE EDAB EDA 5
A70 EMERGENCY OXYGEN EDB K EDF AAAAAAAAAA
A70 SUPPLY & DIST EDC EDH AAAAAAAAAA
A70 BOTTLE ASSY 47HAA EDCA EDC A
A70 HOSE & CONN ASSY 47BAR EDCB FDC 5
A70 PILOT ACTION EDD EDH AAAAAAAAAA
A70 HANDLE 9947A EDDA FDD A
A70 OXYGEN STATUS INFO EDF EDD 888888888
A70 INDICATOR LOX QTY 47ABA EDEA FDE 2
A70 SWITCH,TEST 47ABB EDEB EDE 0
A70 CARTON LITE 12DPO EDEC EDE 1
A70 NORMAL OXYGEN EDF EDA EDB 555555555
A70 NORMAL OXYGEN EDF EDE FAAAAAAAAA
A70 SUPPLY & DIST EDG EDF AAAAAAAAAA
A70 CONVERTER 47AAA EDGA EDG A
A70 COIL,BUILDUP 47AAB EDGB EDG A
A70 VALVE,FILLER 47AAD EDGC EDG 2
A70 QUICK DISCONNECTS 47AAF EDGD EDG 5
A70 EXCHANGER,HEAT 47AAJ EDGE EDG A
A70 VENT ASSY 47AAL EDGF EDG 0
A70 HOSE 47AAH EDGG EDG 5
A70 CONTROL EDH EDF AAAAAAAAAA
A70 VALVE,PRESSURE 47AAC EDHA EDH 5
A70 VALVE,RELIEF 47AAF EDHB EDH 3
A70 REGULATOR 47AAG EDHC EDH 2
A70 INTERNAL LIGHTING EE EX D 022222220
A70 PRIMARY LIGHTING EEA EE FEB 111111111
A70 SECONDARY LIGHTING EEB FF K EEA AAAAAAAAAA
A70 INSTRUMENT LIGHTING EEC EEA 222222222
A70 UTILITY LIGHTING EED EEB 000000000
A70 UTILITY LIGHT ASSY 44BDC EEDA A 000000000
A70 CHARTBOARD LIGHTING EEF FER
A70 CHARTBOARD LIGHTS(2) 44BLA FEFA 5
A70 RHEOSTAT 44FDB EELB 8
A70 FLIGHT INST.LIGHTING EEF EEC AAAAAAAAAA
A70 FLIGHT INST LIGHT SWITCH 44BCA EEFA A
A70 CONTROL UNIT, LIGHT DIM 44BCK EEFB 8
A70 FUSE PANEL 44ECF EEFC 5
A70 TRIM PANEL INST.LIGHT 44FCE EEFD 0
A70 INST.LIGHTS 9 EACH 9944A EEEF 1
A70 INST.LIGHTS 9 EACH 9944A EEEF 0
A70 COMPASS LIGHT 44BRD EEFG 1
A70 TRANSFORMER -REPLACED 44RNB EEFH A
A70 DIM COMP 44ECL EFFJ 8
A70 DIM CIRCUIT CARD 44ECM EFFK 8

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0000000011111111122222222333333334444444555555566666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890
A70 NONFLIGHT INST LIGHTING EEG EEC 111111111
A70 NONFLIGHT INST LIGHT SW 44BCA EEGA EEG A
A70 CONTROL UNIT, LIGHT DIM 44BCK EEGB EEG 8
A70 FUSE PANEL 44BCF EEGC EEG 5
A70 TRIM PANEL, INST. LIGHT 44BCE EEGD EEG 0
A70 INST. LIGHTS 6EA. 9944A EEGE EEG 1
A70 INST. LIGHTS 7 EA. 9944A EEGF EEG 0
A70 TRANSFORMER -REPLACED 44BHA EEGG EEG A
A70 DIM COMP ASSY 44BCL EEGH EEG 8
A70 DIM CARD 44BCM EEGJ EEG 8
A70AUX FLOOD LIGHTING EEH EEB 111111111
A70 CONSOLE LIGHT SWITCH 44BCA EEHA EEB A
A70 SWITCH, AUX FLOOD DIM 44BDE EEHB EEB A
A70 DIM PANEL, INT/EXT 44BCC EEHC EEB 1
A70 AUX FLOOD LIGHTS(2) 44BCE EEBD EEB 1
A70CONSOLE LIGHTING EEJ EEA 111111111
A70 CONSOLE LIGHT SWITCH 44BCA EEJA EEJ A
A70 CONTROL UNIT, LIGHT DIM 44BCK EEJB EEJ 8
A70 FUSE PANEL 44BCF EEJC EEJ 5
A70 CONSOLE LIGHTS(42) 9944B EEJD EEJ 0
A70 TRANSFORMER-REPLACED 44BAA EEJE EEJ A
A70 DIM COMPONENT 44BCL EEJF EEJ 8
A70 DIM CARD 44BCM EEJG EEJ 8
A70 EDGE LIGHT PANEL 44BCE EEJH EEJ 0
A70FLOOD LIGHTING EEK EEE 111111111
A70 FLOODLIGHTS(4) 44BDE EEKA EEK 2
A70 FLOODLIGHT SWITCH 44BCA EEKB EEK A
A70 CONTROL UNIT, LIGHT DIM 44BCK EEKC EEK 8
A70 FUSE PANEL 44BCF EEKD EEK A
A70 TRANSFORMER-REPLACED 44BDG EEKE EEK A
A70 DIM COMPONENT 44BCL EEKF EEK 8
A70 DIM CARD 44BCM EEKG EEK 8
A70SUIT ENVIRONMENT EF EX 001121100
A70 ANTI-G ENVIRONMENT EFA EF 000010000
A70 SUIT, ANTI-G 99AAF EFAB EFA 2
A70 LINE, ANTI-G 99AAG EFAB EFA 8
A70 EXPOSURE SUIT ENVIRONMENT CFB EF 000000000
A70 SUIT, ANTI-EXPOSURE 99AAD EFBA EFB 3
A70 ROSE, VENT AIR 99AAD EFB EFB 4
A70 ANTI-G AIR EFC EFA AAAAAA
A70 VALVE, CHECK 41BBA EFDA EFD A
A70 VALVE, ANTI G 41BDB EFDB EFD A
A70 AIR SUPPLY/DIST EFL EFB AAAAAA
A70 VALVE, SUIT FLOW CONT. 41ADA EFFA EFF A
A70 VALVE, CHECK 41ADI EFFB EFF 1
A70 TEMP CONTROL EFC EFB AAAAAA
A70 SELECTOR, SUIT TEMP 41ADH EFFA EFF 5
A70 CONT. BOX, ELECT. SUIT TEMP 41ADC EFER EFF 3
A70 SENSOR, SUIT TEMP. 41ADD EFEC EFF 4
A70 VALVE, SUIT TEMP. CONT. 41ADE EFED EFF A

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0000000011111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D WINDSHIELD CLEAR EG LY 000000000
A7D WINDSHIELD TEMP. STATUS EGA FGK AAAAAA
A7D SWITCH, THERMOSTAT 41CBJ EGAA EGA A
A7D LIGHT, CAUTION/RAIN REMOVE 12 DRO EGAB EGA 1
A7D RAIN REPELLANT EGB FGN 666666666
A7D ANTI ICE/RAIN REMOVAL EGC EGA FAAAAA
A7D ANTI ICE RAIN REMOVAL EGD EGM AAAAAA
A7D ANTI ICE/RAIN REMOVAL EGC EGN 111111111
A7D CONTROL EGD EGB AAAAAA
A7D RAIN REPEL SWITCH 41ACB EGDA EGD A
A7D RELAY, TIME DELAY 41DFA EGDB EGD 8
A7D SUPPLY/DIST EGF EGR AAAAAA
A7D CONTAINER 41DAA EGEA EGF A
A7D ADAPTER 41DAB EGEB EGF 3
A7D VALVE, SHUTOFF 41DAC EGEC EGF 5
A7D NOZZLE, CENTER 41DAD EGED EGF 4
A7D NOZZLE, LH 41DAG EGEE EGF 4
A7D SIGHT GAUGE 41DAH EGEE DB 1
A7D CONTROL MANUAL EGF EGC AAAAAA
A7D RAIN REMOVE SWITCH 41ACB EGFA EGF A
A7D AIR SUPPLY/DIST EGH EGC AAAAAA
A7D VALVE, RAIN REM. 41CBB EGHA EGH 8
A7D NOZZLE, CENTER 41CFC EGHB EGH 5
A7D NOZZLE, LH 41CFF EGHC EGH 5
A7D DUCTS, RAIN REM. 9941F EGHG LGH 3
A7D PILOT ACTION EGF K ECG AAAAAA
A7D ANTI ICE EGM FG A AAAAAA
A7D RAIN CLEAR EGN EG G 222222222
A7D EXTERNAL LIGHTING EH EH D 111111121
A7D ANTI-COLLISION LIGHTS EHA EH 000000000
A7D EXT LIGHT SWITCH 23ADA EH 4
A7D EXTERNAL LIGHT SWITCH 234AA N EHAAA EH 4
A7D RELAY 44AKA FHAB EH 2
A7D DIM PANEL, EXT/INT 44BCC EHAC EH 1
A7D UPPER LIGHT ASSY 44AGQ EHAD EHA 2
A7D LOWER LIGHT ASSY 44AHC EHAE EHA 2
A7D SWITCH, ANTI COLL. 44PCA EHAF EHA A
A7D POSITION LIGHTS EHE EH 000000000
A7D FLOOD/FORMATION LIGHTS EHC EH 000000000
A7D SWITCH, FLOOD/FORMATION 44PCA EHCA EHC A
A7D LAND/TAXI LIGHTING EHD EH 000000001
A7D LAND/TAXI LIGHT ASSY 44AFQ EHDA EHD A
A7D RELAY 44AFB EHDB EHD A
A7D SWITCH/LAND TAXI 9944C EHDC EHD A
A7D TAIL POS. LIGHTS EHE EHB 555555555
A7D TAIL LIGHT ASSY (2) 44ADO EHEA EHE 5
A7D TRANSFORMER (2) 44ADA EHEB LHE 5
A7D SWITCH, TAIL POS. 44ECA EHEC EHE A
A7D WING POSITION LIGHTS EHF EHB 555555555
A7D WING LIGHT ASSY (2) 44AEC EHFA FHF 5

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000000001111111112222222222233333333344444444455555555566666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D TRANSFORMERS(2) 44ALE EHF EHF 5
A7D SWITCH,WING POS 44ECA EHF EHF A
A7D FLOOD LIGHTS EHG EHG 55555555
A7D FLASHER EHG EHG 00000000
A7D FLASHER ASSY 44AJG EHG EHG A
A7D RELAY 44AJA EHG EHG 5
A7D SWITCH,FLASH/STBY 44ECA EHG EHG A
A7D FUSELAGE FLOOD LIGHTS EHG EHG 55555555
A7D LIGHT ASSY(2) 44AJG EHG EHG 5
A7D TRANSFORMERS(2) 44AEA EHG EHG 5
A7D TAIL FLOOD LIGHTS EHG EHG 55555555
A7D LIGHT ASSY(2) 44AJG EHG EHG 5
A7D TRANSFORMERS(2) 44ACA EHG EHG 5
A7D FLOOD LIGHTS EHG EHG 55555555
A7D WING FORM LIGHT ASSY(2) 44AAC EHG EHG 5
A7D TRANSFORMERS(2) 44AEA EHG EHG 5
A7D REFUEL PROBE LIGHTS EHG EHG 00000000
A7D AIR REFUEL PROBE LIGHT-71046DC EHG EHG A
A7D TRANSFORMER 44DCC EHG EHG A
A7D SLIPWAY LIGHTS 2 EACH-NEW46CC EHG EHG 5
A7D EXTERNAL LIGHTING ATTENUATE EHX EY 11111111
A7D INTERNAL ENVIRONMENT EX E 0556666A
A7D EXTERNAL ENVIRONMENT EY E 11111111
A7D LIGHT CONTROL F 00000000
A7D LIFT AUGMENTATION FA F 01000000
A7D TRAILING EDGE FLAP POSITION FAA FA 01000000
A7D TRAILING EDGE FLAP POSITION FAA FA 00000000
A7D LEFT TRAILING EDGE FLAP LF AAA LF AAA 00000000
A7D RIGHT TRAILING EDGE FLAP LF AAA LF AAA 00000000
A7D LEFT TRAILING EDGE FLAP LF AAA LF AAA 00000000
A7D RIGHT TRAILING EDGE FLAP LF AAA LF AAA 00000000
A7D T.E.FLAP CYLINDER ASSY INDR 14GE LF AAA LF AAA 2
A7D T.E.FLAP CYLINDER ASSY INDR 14GE LF AAA LF AAA 2
A7D T.E.FLAP CYLINDER ASSY OUTDR 14GE LF AAA LF AAA 2
A7D T.E.FLAP CYLINDER ASSY OUTDR 14GE LF AAA LF AAA 2
A7D FLAP ACTUATOR SWIVEL 4EA 14GE LF AAA LF AAA 5
A7D FLAP ACTUATOR SWIVEL 4EA 14GE LF AAA LF AAA 5
A7D RESTRICTOR VALVE 2 EA 14GE LF AAA LF AAA 0
A7D RESTRICTOR VALVE 2 EA 14GE LF AAA LF AAA 0
A7D WING FUSE FLAP SWIVEL 2FA 14GF LF AAA LF AAA 2
A7D WING FUSE FLAP SWIVEL 2FA 14GF LF AAA LF AAA 2
A7D BLEED VALVE 2EA 9914 LF AAA LF AAA 2
A7D BLEED VALVE 2EA 9914 LF AAA LF AAA 2
A7D T.E.FLAP INDR HINGE FITTING 14GC LF AAA LF AAA 8
A7D T.E.FLAP INDR HINGE FITTING 14GC LF AAA LF AAA 8
A7D T.E.FLAP OUTDR HING FITTING 14GC LF AAA LF AAA 8
A7D T.E.FLAP OUTDR HING FITTING 14GC LF AAA LF AAA 8
A7D T.E.FLAP LOWER ING FITTING 14GC LF AAA LF AAA 8
A7D T.E.FLAP LOWER ING FITTING 14GC LF AAA LF AAA 8

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1234567890123456789012345678901234567890123456789012345678901234567890
A7D FLAP SLIT DOORS 14GCD LF AAAK LF AAA 0
A7D FLAP SLIT DOORS 14GCD RF AAAK RF AAA 0
A7D TRAILING EDGE FLAP SITUATION FAAB FAA SAAAAAAAAA
A7D TRAILING EDGE FLAP SITUATION FAAB LF AAA FAAAAAAAAA
A7D TRAILING EDGE FLAP SITUATION FAAB RF AAA FAAAAAAAAA
A7D HYD VARIABLE CONTROL VALVE 14GEJ FAABA FAAB A
A7D CHECK VALVES 2EA 14GEK FAABB FAAB 1
A7D EMERG SELECTOR BYPASS VALVE 14GFR FAABC FAAB A
A7D LEADING EDGE FLAP POSITION FAB FA 010000010
A7D INBOARD LEADING EDGE FLAP FABA FAB 222222222
A7D LEFT INBD LEADING EDGE FLAP LFABH FABA 555555555
A7D L. INBOARD L.E. FLAP LFABH FADR FAAAAAAAAA
A7D RIGHT INBD LEADING EDGE FLAP RFABH FABA 555555555
A7D R. INBOARD L.E. FLAP RFABH FADR FAAAAAAAAA
A7D WING INBD L.E. FLAP CYLINDER 14GEB LFABBA LFABH 2
A7D WING INBD L.E. FLAP CYLINDER 14GEB RFABBA RFABH 2
A7D WING OTBD L.E. FLAP CYLINDER 14GEC LFABBB LFABH 2
A7D WING OTBD L.E. FLAP CYLINDER 14GEC RFABBB RFABH 2
A7D FLAP ACTUATOR SWIVEL 4FA 14GEH LFABBC LFABH 2
A7D FLAP ACTUATOR SWIVEL 4FA 14GEH RFABBC RFABH 2
A7D RESTRICTOR CHECK VALVE 2EA 14GEK LFABBD LFABH 0
A7D RESTRICTOR CHECK VALVE 2EA 14GEK RFABBD RFABH 0
A7D CYLINDER ATTACH LINK INBD 14GAA LFABBE LFABH 2
A7D CYLINDER ATTACH LINK INBD 14GAA RFABBE RFABH 2
A7D CYLINDER ATTACH LINK OTBD 14GAB LFABBF LFABH 2
A7D CYLINDER ATTACH LINK OTBD 14GAB RFABBF RFABH 2
A7D CENTER SECTION SEAL L.E. 14GAC LFABBG LFABH 0
A7D CENTER SECTION SEAL L.E. 14GAC RFABBG RFABH 0
A7D CENTER SECTION HINGE 14GAD LFABBH LFABH 2
A7D CENTER SECTION HINGE 14GAD RFABBH RFABH 2
A7D OUTBOARD LEADING EDGE FLAP FABC FAB 333333333
A7D LEFT OUTBOARD L.E. FLAP LFARD FABC 555555555
A7D L. OUTBOARD L.E. FLAP LFARD FADB FAAAAAAAAA
A7D RIGHT OUTBOARD L.E. FLAP RFABJ FABC 555555555
A7D R. OUTBOARD L.E. FLAP RFABD FADR FAAAAAAAAA
A7D WING INBD PNL FLAP CYLINDER 14CED LFABDA LFABD 2
A7D WING INBD PNL FLAP CYLINDER 14CED RFABDA RFABD 2
A7D WING OTBD PNL FLAP CYLINDER 14CEE LFABDB LFABD 2
A7D WING OTBD PNL FLAP CYLINDER 14CEE RFABDB RFABD 2
A7D FLAP ACTUATOR SWIVEL 10FA 14GEH LFABDC LFABD 2
A7D FLAP ACTUATOR SWIVEL 10FA 14GEH RFABDC RFABD 2
A7D RESTRICTOR VALVE 2FA 14GEK LFABDD LFABD 0
A7D RESTRICTOR VALVE 2FA 14GEK RFABDD RFABD 0
A7D OUTER PANEL LINK INBD 14GBA LFABDE LFABD 2
A7D OUTER PANEL LINK INBD 14GBA RFABDE RFABD 2
A7D OUTER PANEL LINK OTBD 14GBB LFABDF LFABD 2
A7D OUTER PANEL LINK OTBD 14GBB RFABDF RFABD 2
A7D OUTER PANEL SEAL LE FLAP TE 14GBC LFABDG LFABD 0
A7D OUTER PANEL SEAL LE FLAP TE 14GBC RFABDG RFABD 0
A7D OUTER PANEL HINGES 14GBD LFABDH LFABD 1

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000000001111111112222222223333333334444444445555555556666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890
A70 OUTER PANEL HINGES 14GRD RFARDH RFARD 1
A70 LEADING EDGE FLAP ACTUATION FARE FAR SAAAAAAAAA
A70 LEADING EDGE FLAP ACTUATION FARE LFARB FAAAAAAAAA
A70 LEADING EDGE FLAP ACTUATION FARE RFARB FAAAAAAAAA
A70 LEADING EDGE FLAP ACTUATION FARE LFARB FAAAAAAAAA
A70 LEADING EDGE FLAP ACTUATION FARE RFARD FAAAAAAAAA
A70 WING FUSELAGE FLAP SWIVEL 14GFJ FARE FARE 2
A70 RESTRICTOR VALVE 14GEK FARE FARE 0
A70 SHUTTLE VALVE 9914R FARE FARE 2
A70 EMERG SELECTOR BYPASS VALVE 14GEB FARE FARE 5
A70 NORMAL FLAP CONTROL FACA FACC FACH 11111111
A70 NORMAL FLAP CONTROL FACA UIRJ AAAAAAAA
A70 FLAP SELECTOR VALVE 14GEA FACAA FACA A
A70 CHECK VALVE 2EA 14GEK FACAB FACA 1
A70 RESTRICTOR VALVE 14GEK FACAC FACA 0
A70 FLAP HANDLE ISO SWITCH 14GJA FACAD FACA A
A70 FLAP HANDLE DOWN SWITCH 14GJR FACAE FACA A
A70 TRAILING EDGE BEEP SWITCHES 14GJC FACAF FACA 5
A70 DELAY PANEL (FLAP) 71AEE FACAG FACA 1
A70 TEST PANEL 42BAB FACAH FACA 0
A70 FLAP CONTROL ASSEMBLY 14GDA FACAJ FACA 1
A70 CONTROL ROD 14GDD FACAK FACA A
A70 BELL CRANK 14GLE FACAL FACA A
A70 EMERGENCY FLAP CONTROL FACH FACC K FACA AAAAAAAA
A70 EMERGENCY FLAP SELECTOR SW 14GJD FACH FACH A
A70 EMERGENCY SEL SOL VALVE 14GEA FACH FACH A
A70 EMERG FLAP ACCUMULATOR PKG 14GFC FACH FACH 1
A70 EMERG PRESS DUMP VALVE 14GEG FACH FACH 5
A70 THERMAL RELIEF VALVE 14GED FACH FACH 2
A70 FLAP CONTROL FACC FA S010000050
A70 FLAP CONTROL FACC FAAB FAAAAAAAAA
A70 FLAP CONTROL FACC FARE FAAAAAAAAA
A70 EMERGENCY PRESSURE FACH FACH AAAAAAAA
A70 PRECHARGE PRES SHUTOF VALVE 14GFE FACDA FACD A
A70 ACCUMULATOR 14GFF FACDB FACD A
A70 EMERG FLAP ACCUMULATOR PKG 14GFC FACDC FACD 1
A70 CHECK VALVE 14GEK FACDD FACD 1
A70 EXTENSION UNIT 14GFH FACDE FACD C
A70 BLANKET 14GGA FACDF FACD 0
A70 T.E. FLAP POSITION INFORMATION FADA FAJ 11111111
A70 FLAP POSITION INDICATOR 14GHA FADAA FADA A
A70 POSITION TRANSMITTER 14GHC FADAB FADA A
A70 T.E. FLAP POSITION INFORMATION FADB FAJ 11111111
A70 L.E. POSITION SWITCH 14CHR FADBA FADB A
A70 FLAP POSITION INDICATOR 14GHD FADBE FADB A
A70 L.E. UNLOCK SWITCH REL 14GHE FADBC FADB A
A70 PILOT ACTION FAJ FACH AAAAAAAA
A70 SPEED CONTROL FB F 000010000
A70 SPEED BRAKE POSITION FBA FB 11111111
A70 SPEED BRAKE POSITION FBA FRJ FAAAAAAAAA

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1234567890123456789012345678901234567890123456789012345678901234567890
A7D FUSE SPEED BRAKE FLAP ASSY 14FAA FBAA FBA A
A7D SPEED BRAKE ACTUATION FBB FBA AAAAAAAAAA
A7D 4 WAY 3 POS SOLENOID VALVE 14FFA FBBB FBB A
A7D ACTUATING CYLINDER 14FBB FBHB FBB A
A7D 3/8 SPEED BRAKE SWIVEL 2EA 14FBC FBBC FBB 2
A7D SPEED BRAKE UNLOADING VALVE 14FBE FBBD FBB 3
A7D SPEED BRAKE ACT. COMMAND FBC FBB 000020000
A7D SPEED BRAKE SELECTOR SWITCH 14FCA FBCA FBC A
A7D RELAY K6 4914C FBCB FRE A
A7D SPEED BRAKE INFORMATION FBD FBF 111111111
A7D SPEED BRAKE POSITION IND 14FCC FBDA FBD 2
A7D POSITION TRANSMITTER 14FCD FBDB FBD 2
A7D WARNING LIGHT 4914D FBDC FBD 2
A7D BACKUP RETRACT ACTUATION FBE FBB K FBC AAAAAAAAAA
A7D YAW CONTROL FC F 010000030
A7D RUDDER POSITION FCA FC AAAAAAAAAA
A7D RUDDER UPPER HINGE 14FAA FCAB FCA 3
A7D RUDDER MIDDLE HINGE 14FAB FCAC FCA 3
A7D RUDDER LOWER HINGE 14FAC FCAD FCA 3
A7D RUDDER ASSEMBLY 14FAD FCB FCA 5
A7D RUDDER ACTIVATION FCB FCA AAAAAAAAAA
A7D RUDDER ACTIVATION FCB FCB FAAAAA AAAA
A7D RUDDER ACTIVATION FCB FCB FAAAAA AAAA
A7D RUDDER POWER CONTROL ASSY 14DBC FCBA FCB 5
A7D RUDDER PUNK SPRING STRUT 14DBD FCBH FCB A
A7D YAW AFCS CONTROL ASSY 14DBE FCBG FCB 1
A7D CONTROL RODS 6 EACH 14DBH FCBH FCB A
A7D BELL CRANK 7 EACH 14DBJ FCBH FCB A
A7D RUDDER PC CYLINDER ASSY 14DBA FCBF FCB A
A7D RUDDER PC SERVO VALVE ASSY 14DBF FCBG FCB A
A7D RUDDER RESTRICT CONT INSTL 14DBL FCBZ FCB 0
A7D MANUAL MOTION TRANSMISSION FCB FCB 999999999
A7D 6 DEGREE STOP LINKAGE ASSY 14DBB FCCAA FCCA 7
A7D CONTROL RODS 14DBH FCCAB FCCA A
A7D BELL CRANKS 14DBJ FCCAC FCCA A
A7D PEDAL MOVEMENT FCCB FCCA AAAAAAAAAA
A7D RUDDER JUMPER CABLE ASSY 14DBA FCCBA FCCB 2
A7D RUDDER PEDAL ASSY 2EA 14DBF FCCBB FCCB A
A7D RUDDER CABLES 2EA 14DBG FCCBC FCCB A
A7D PULLEYS 12 EA 14DBK FCCBD FCCB 1
A7D 6/20 DEGREE CONTROL FCCC FCCA 000000000
A7D FLAP STOP DORSAL LINK ASSY 14DBA FCCCA FCCC A
A7D 6 DEGREE RUDDER STOP 14DBB FCCCB FCCC A
A7D CLEAN CONDITION GAIN ASSY 14DBD FCCCC FCCC A
A7D PULLEY 2EA 14DBK FCCCD FCCC A
A7D AUTO YAW STABILIZATION FCB FCB 011111110
A7D YAW SERVO VALVE 2 EA 57BCC FCDAA FCD A
A7D VOLTAGE REGULATOR 2 EA 57CCA FCDAB FCD A
A7D THREE STAGE AMPLIFIER 2 EA 57CCD FCDAC FCD A
A7D SIGNAL DEMODULATOR 2 EA 57CCC FCDAD FCD A

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1234567890123456789012345678901234567890123456789012345678901234567890
A70 SIGNAL MODULATOR          570CF FCFB          FCE          1
A70 AUTO YAW INDICATOR         5957B FCFXA         FCE          1
A70 PITCH CONTROL              FD          F          CAAAAAAA0
A70 NORMAL ACTIVATION          FDA          FD          111111111
A70L BACK UP ACTIVATION        LFDB          FD          KRFDC AAAAAAAAAA
A70R BACK UP ACTIVATION        RFDB          FD          KLFDC AAAAAAAAAA
A70 HYD PRESS ATTENUATION      FDC          FD          111111111
A70L ACTUATION                 LFDC          FCDH+ FAAAAAAAAA
A70L ACTUATION                 LFDC          FDA          AAAAAAAAAA
A70L ACTUATION                 LFDC          LFDB          AAAAAAAAAA
A70R ACTUATION                 RFDC          FDA          AAAAAAAAAA
A70R ACTUATION                 RFDC          RFDB          AAAAAAAAAA
A70 ACTUATOR                   14EAF LFDC          LFDC          A
A70 ACTUATOR                   14EAF RFDC          RFDC          A
A70 FUNK SPRING                14EBG LFDC          LFDC          A
A70 FUNK SPRING                14EBG RFDC          RFDC          A
A70 UHT PC SERVO ASSY          14EBH LFDC          LFDC          A
A70 UHT PC SERVO ASSY          14EBH RFDC          RFDC          A
A70 CONTROL RODS AND LINKS 6EA 14EBT LFDC          LFDC          A
A70 CONTROL RODS AND LINKS 6EA 14EBT RFDC          RFDC          A
A70 BELL CRANKS AND IDLERS 5EA 14EFU LFDC          LFDC          A
A70 BELL CRANKS AND IDLERS 5EA 14EFU RFDC          RFDC          A
A70 UHT CYLINDER ASSY          14ECA LFDC          LFDC          A
A70 UHT CYLINDER ASSY          14ECA RFDC          RFDC          A
A70 SLEEVE AND SLIDER VALVE ASY 14ECB LFDC          LFDC          A
A70 SLEEVE AND SLIDER VALVE ASY 14ECB RFDC          RFDC          A
A70 MOTION TRANSMISSION        FDD          FD          SAAAAAAAAA
A70 MOTION TRANSMISSION        FDD          LFDC          FAAAAAAAAA
A70 MOTION TRANSMISSION        FDD          RFDC          FAAAAAAAAA
A70 MOTION TRANSMISSION        FDD          FDEB          FAAAAAAAAA
A70 MOTION TRANSMISSION        FDD          FDEY          FAAAAAAAAA
A70 PITCH TRIM ACTUATOR        14EB4 FDD          FDD          2
A70 HORIZ STAB FELL TRIM LINK 14EBF FDD          FDD          3
A70 CONTROL RODS              14EBT FDD          FDD          A
A70 BELL CRANKS AND IDLERS     14EBU FDD          FDD          A
A70 HORIZONTAL TAIL ASSEMBLY    14EAA LFDE          FD          A
A70 HORIZONTAL TAIL ASSEMBLY    14EAA RFDE          FD          A
A70 AUTOMATIC PITCH STABILIZATION FDEA          FDEAZ          011111110
A70 AUTO AUG ATTEN             FDEAZ          FDD          111111111
A70 AUTOMATIC FLIGHT COMMAND    FDEB          FDD          K FDEA AAAAAAAAAA
A70 AUTO SIGNAL CONDITIONER     FDEC          FDEA          AAAAAAAAAA
A70 AUTO SIGNAL CONDITIONER     FDEC          FDEB          AAAAAAAAAA
A70 PITCH SERVO VALVE 2EA       57BAC FDECA          FDEC          1
A70 VOLTAGE REGULATOR 2EA      57CAA FDECB          FDEC          1
A70 ACTUATOR DRIVER DEMOD 2EA   57CAC FDECC          FDEC          1
A70 THREE STAGE AMPL 2EA        57CAD FDECD          FDEC          1
A70 TRANSFORMER 2EA            57CAG FDECE          FDEC          1
A70 PITCH CONT AMPL CHASSIS     57CAQ FDECF          FDEC          0
A70 NO1 PITCH CALIBRATOR        57CAM FDECG          FDEC          1
A70 NO2 PITCH CALIBRATOR        57CAN FDECH          FDEC          1

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D NO3 PITCH CALIBRATOR      57CAP FDECJ FDEC 1
A7D NO4 PITCH CALIBRATOR      57CAR FDECK FDEC 1
A7D NO5 PITCH CALIBRATOR      57CAS FDECL FDEC 1
A7D NO6 PITCH CALIBRATOR      57CAT FDECM FDEC 1
A7D NO7 PITCH CALIBRATOR      57CAU FDECN FDEC 1
A7D ELEC DUAL SWITCH 2EA      57CAF FDECP FDEC 1
A7D PITCH HYD ACTUATOR        57BAH FDECQ FDEC 1
A7DHYDRAULIC PRESS CONTROL    FDEU FDEC AAAAAA
A7DHYDRAULIC PRESS CONTROL    FDEH FDEHA FAAAAA
A7D PITCH SERVO SHUTOFF VALVE 57CAA FDEDA FDEH A
A7D PITCH FOLLOWUP XDUCK 2EA  57CAC FDEDB FDEH 1
A7D RELAY AMPLIFIER           57CAE FDEDC FDEH A
A7D VOLTAGE CALIBRATOR        57CAV FDEDD FDEH A
A7DCONTROLLED AUG SIGNAL      FDEF FDEA AAAAAA
A7DRATE SIGNAL CONDITION      FDEG FDEF AAAAAA
A7D RELAY AMPLIFIER 2EA      57CAR FDEGA FDEG 1
A7DPITCH RATE SIGNAL          FDEH FDEG AAAAAA
A7D RATE GYRO 2EA            57BAG FDEHA FDEH 1
A7D PITCH GYRO 2EA           57BAH FDEHB FDEH 3
A7DAUG RATE/AUTO SIGNAL PROCESS FDEJ FDEG AAAAAA
A7DAUG RATE/AUTO SIGNAL PROCESS FDEJ FDEP AAAAAA
A7D DUAL ELECTRONIC SWITCH 2EA 57CAF FDEJA FDEJ 1
A7DACCELERATION SIGNAL CONDITON FDEK FULF 555555555
A7DACCCELERATION SENSING      FDEL FULK AAAAAA
A7D NORMAL ACCELEROMETER 2EA  57BAF FDELA FDEL 3
A7DFORCE/ACCEL SIGNAL PROCESSOR FDEM FDEK AAAAAA
A7DFORCE/ACCEL SIGNAL PROCESSOR FDEM FDEN AAAAAA
A7D THREE STAGE AMPLIFIER 2EA 57CAD FDEMA FDEM 1
A7D DUAL ELECTRONIC SWITCH 2EA 57CAE FDEMB FDEM 1
A7D DEAD ZONE/FORCE 3 STAG AMPL 57CAD FDEMC FDEM 5
A7DSTICK FORCE SIGNAL          FDEN FDEB AAAAAA
A7D RELAY AMPLIFIER           57CAB FDENA FDEN 5
A7D DUAL ELECTRONIC SWITCH    57CAF FDENB FDEN 5
A7DSTICK FORCE SENSING        FDEP FDEN AAAAAA
A7D STICK FORCE TRANSDUCER 2EA 57AAD FDEPA FDEP 2
A7D STICK FORCE XDUCE ADAPTER 57AAH FDEPB FDEP 1
A7D STICK GRIP                14AAA FDEPC FDEP A
A7DCLAP POSITION GAIN          FDEQ FDEC 010000000
A7DAUTOMATIC FLIGHT SIGNALS   FDER FDEK AAAAAA
A7DSIGNAL SUMMER              FDES FDER 000000000
A7D THREE STAGE AMPLIFIER 2EA 57CAD FDESA FDES 1
A7D SLOW IN GATE LIMITER 2EA 57CAJ FDESB FDES 1
A7DATT/ALT SIGNAL PROCESSOR    FDET FDER 000000000
A7DATT/ALT SIGNAL PROCESSOR    FDET FDEU 000000000
A7DATT/ALT SIGNAL PROCESSOR    FDET FDEZ 000000000
A7D THREE STAGE AMPLIFIER 2EA 57CAD FDETA FDET 1
A7D ONE STAGE FINAL AMP 2EA 57CAH FDETB FDET 1
A7D 30 DEGREE/SEC SYNCHRO 2EA 57CAL FDETC FDET 1
A7DALTITUDE HOLD SIGNAL       FDEU FDER 000000000
A7D DUAL ELECTRONIC SWITCH    57CAF FDEUA FDEU A

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 TRANSFORMERS 2EA 57CAG FDEUB FDFU A
A70 LIMITER AMPL 57CAJ FDEUC FDFU A
A70 S DEGREE/SEC SYNCHRO 57CAK FDEUD FDFU A
A70 ALTITUDE HOLD SELECT FDEV FDFU AAAAAAAAAA
A70 MODE SELECT PANEL 57AAA FDLVA FDFV 1
A70 MODE SELECT SWITCH 57AAC FDEVB FDFV A
A70 PULL UP SIGNAL CONTROL FDEY FDEC AAAAAAAAAA
A70 PULL UP SIGNAL CONTROL FDEY FDEB AAAAAAAAAA
A70 TRANSDUCER 2EA 57BAD FDEYA FDEY 2
A70 ALTITUDE HOLD SIGNAL FDFZ FDEK 000000000
A70 SHAFT 14FAR LFDF FD A
A70 SHAFT 14FAR RFDF FD A
A70 MANUAL PITCH COMMAND FDEA FDD 888888888
A70 CONTROL RODS 14AAB FDEAB FDEA A
A70 BELLCRANK 14AAC FDEAC FDEA A
A70 SWIVEL 14AAD FDEAD FDEA A
A70 CONTROL RODS AND LINKS 2EA 14EET FDEAE FDEA A
A70 BELLCRANKS AND IDLERS 14FBU FDEAF FDEA A
A70 STICK ASSY 14AAC FDEAG FDEA 5
A70 PITCH MANUAL INITIATE FDEB FDEA AAAAAA444A
A70 STICK GRIP 14AAA FDEBA FDEB 1
A70 PITCH FEEL SENSING FDFC FDEA 222222222
A70 LONGITUDINAL FEEL STRUT ASSY 14ERF FDECA FDFC 2
A70 STAB FEEL TRIM LINK ASSY 14ERF FDFCB FDFC 6
A70 HORIZ STAB FEEL TRIM LINK 14ERF FDFCH FDGA A
A70 HORZ BOBWEIGHT BALANCE SPRNG 14ERK FDFCC FDFC 2
A70 HORIZ STABILIZER BOBWEIGHT 14EPA FDFCD FDFC 5
A70 AFT BOBWEIGHT BALANCE SPRNG 14EBJ FDFCE FDFC 2
A70 LONGITUDE CONT BOBWEIGHT 14ERC FDFCF FDFC 5
A70 PITCH DAMPER FDFD FDEA 111111111
A70 HORZ VISCOUS DAMPER 14FEB FDFDA FDFD 2
A70 AFT VISCOUS DAMPER 14FEB FDFDB FDFD 2
A70 TIP 14FAC LFDF FD 0
A70 TIP 14FAC RFDF FD 0
A70 PITCH TRIM ACTUATION FDEA FUGD FAAAAA444A
A70 PITCH TRIM ACTUATION FDEA FUGE 000101010
A70 PITCH TRIM ACTUATOR 14EDA FDEAB FDGA A
A70 PITCH TRIM SIGNAL CONDITION FDEB FDGA AAAAAAAAAA
A70 MODULE A1 14BLA FDEBA FDGB 5
A70 MODULE A2 14PEB FDEBB FDGB 5
A70 HOUSING ASSY 14BFC FDEBC FDGB 1
A70 COMPONENT ASSY A3 14BED FDEBD FDGB 5
A70 COMPONENT ASSY A4 14BLE FDEBE FDGB 5
A70 PITCH TRIM AMPLIFIER 14BEC FDEBF FDGB A
A70 PITCH TRIM CONTROL FDFC FDEB AAAAAAAAAA
A70 STICK GRIP 14AAA FDECA FDFC A
A70 TRIM DISCONNECT SWITCH 14FEC FDECB FDFC A
A70 PITCH TRIM INFORMATION FDFD FDJ 111111111
A70 TRIM INDICATOR 14EFA FDEDA FDFD A
A70 SYNCHRO, TRIM 14FEB FDEDB FDFD A

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1234567890123456789012345678901234567890123456789012345678901234567890
A70PITCH TRIM ATTEN                                FDGE                                FDFA                                1111111111
A70 LEADING EDGE                                14EAD LFDH                                FD                                1
A70 TRAILING EDGE                                14EAD RFDH                                FD                                1
A70AUTO PITCH INFORMATION                                FDHA                                DFEX 1 FDEB AAAAAAAAAA
A70 MULTIPURPOS INDICATOR                                57AAB FDHAA                                FDHA                                1
A70 AUTO PITCH INDICATOR                                5957A FDHAAA                                FDHA                                1
A70 SIGNAL MODULATOR MODULE                                57CAF FDHAB                                FDHA                                1
A70 PITCH ADVISORY LIGHT                                44FCD FDHAC                                FDHA                                1
A70TRIM/INFO CONDITIONER                                FDHB                                FDGB                                1111111111
A70TRIM/INFO CONDITIONER                                FDHB                                FDHA                                FAAAAAAAAA
A70 THREE STAGE AMPLIFIER                                57CAD FDHBA                                FDHB                                A
A70PILOT ACTION                                FDJ                                FDGC                                AAAAAAAAAA
A70 TRAILING EDGE                                14EAD LFDJ                                FD                                1
A70 TRAILING EDGE                                14EAD RFDJ                                FD                                1
A70 HOUSING ASSEMBLY                                14EAG LFDK                                FD                                0
A70 HOUSING ASSEMBLY                                14EAG RFDK                                FD                                0
A70TORQUE CONTROL                                FDQ                                FQA                                FDS 1111111111
A70TORQUE CONTROL                                FDQ                                LFDJ                                AAAAAAAAAA
A70TORQUE CONTROL                                FDQ                                RFDJ                                AAAAAAAAAA
A70 ACTUATOR HORN                                14EAF LFDQA                                FDQ                                A
A70 ACTUATOR HORN                                14EAF RFDQA                                FDQ                                A
A70 DHT INTERCONNECT LINK                                14EBM FDQC                                FDQ                                A
A70 DHT TORQUE TUBE                                14EBM FDQC                                FDQ                                A
A70ACTUATION SYNCHRONIZATION                                FDS                                FQA                                FDS 1111111111
A70 LOAD LIMITING LINK                                14EFP LFDSA                                FDS                                A
A70 LOAD LIMITING LINK                                14EFP RFDQA                                FDS                                A
A70 SERVO CONT INTERCONN LINK                                14EFP FDSB                                FDS                                A
A70 SERVO CONTROL INTERCONNECT                                14EFS FDSC                                FDS                                A
A70 BELLCRANK                                14EPD LFDSC                                FDS                                A
A70 BELLCRANK                                14EPD RFDSC                                FDS                                A
A70ROLL CONTROL                                FF                                F                                OAAAAAAAAA
A70LEFT ROLL                                LFF                                FF                                O855555A0
A70RIGHT ROLL                                RFF                                FF                                O855555A0
A70AILERON POSITION                                FFA                                LFF                                F041121140
A70AILERON POSITION                                FFA                                RFF                                F041121140
A70AILERON POSITION                                FFA                                FFAZ                                S041121140
A70LEFT AILERON POSITION                                LFEA                                FEA                                222222222
A70RIGHT AILERON POSITION                                RFEA                                FEA                                222222222
A70 AILERON HINGE INBD FITTING 14BBA LFEAA LFEA 2
A70 AILERON HINGE INBD FITTING 14BPA RFEAA LFLA 2
A70 AILERON HINGE CTR FITTING 14BBB LFEAB LFEA 1
A70 AILERON HINGE CTR FITTING 14BBP RFEAB RFEA 1
A70 AILERON HINGE OUTBD FITTING 14BPC LFEAC LFEA 2
A70 AILERON HINGE OUTBD FITTING 14BPC RFEAC RFEA 2
A70 AILERON SEAL 14BBB LFEAD LFEA 0
A70 AILERON SEAL 14BBP RFEAD RFEA 0
A70 AILERON ASSEMBLY 14BBB LFEAE LFEA A
A70 AILERON ASSEMBLY 14BBP RFEAE RFEA A
A70AILERON ATTEN                                FEAZ                                FE                                S085555A0
A70LEFT AILERON ACTUATION                                LFER                                LFEA 0 AAAAAAAAAA

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DESCRIPTION	REF	REF	REF
A7DRIGHT AILERON ACTUATION	REFB	REFB	AAAAA
A7D AILERON LOAD LIMITING LINK	14PAC	REFB	A
A7D AILERON LOAD LIMITING LINK	14PAC	REFB	A
A7D CONTROL RODS TEA	14PAF	REFB	A
A7D CONTROL RODS 7 EA	14PAF	REFB	A
A7D BELLCRANKS/IDLERS 9EA	14PAG	REFB	A
A7D BELLCRANKS/IDLLKS 9EA	14PAG	REFB	A
A7D AILERON CYLINDER ASSY	14PCD	REFB	A
A7D AILERON CYLINDER ASSY	14PCD	REFB	A
A7D AILERON SERVO VALVE ASSY	14PCE	REFB	A
A7D AILERON SERVO VALVE ASSY	14PCE	REFB	A
A7D WING FOLD SWIVEL JOINT	14PCK	REFB	A
A7D WING FOLD SWIVEL JOINT	14PCK	REFB	A
A7D AILERON ACTUATOR	14PCF	REFB	A
A7D AILERON ACTUATOR	14PCF	REFB	A
A7D EXTENSION UNIT,AIL ACT	14CLL	REFB	A
A7D EXTENSION UNIT,AIL ACT	14CLL	REFB	A
A7D SWIVEL	14PCM	REFB	A
A7D SWIVEL	14PCM	REFB	A
A7DLEFT DEFLECTOR POSITION	LFEC	LFZ	22222222
A7DRIGHT DEFLECTOR POSITION	RFEC	RFZ	22222222
A7D DEFLECTOR ASSY	14CAB	LFEC	A
A7D DEFLECTOR ASSY	14CAF	RFEC	A
A7D LINKAGE	14CAC	LFEC	A
A7D LINKAGE	14CAC	RFEC	A
A7DLEFT SPOILER POSITION	LFED	LFEC	FAAAAAA
A7DLEFT SPOILER POSITION	LFED	LFZ	AAAAA
A7DRIGHT SPOILER POSITION	RFED	RFEC	FAAAAAA
A7DRIGHT SPOILER POSITION	RFED	RFZ	AAAAA
A7D SPOILER ASSY	14CAA	LFED	A
A7D SPOILER ASSY	14CAA	RFED	A
A7DLEFT SPOILER ACTUATION	LFEE	LFED	AAAAA
A7DRIGHT SPOILER ACTUATION	RFEE	RFED	AAAAA
A7D CONTROL RODS	14BAF	LFEE	A
A7D CONTROL RODS	14BAF	RFEE	A
A7D BELLCRANK/IDLERS	14BAG	LFEE	A
A7D BELLCRANK/IDLERS	14BAG	RFEE	A
A7D LOAD-LIMITING LINK	14BAH	LFEE	A
A7D LOAD-LIMITING LINK	14BAH	RFEE	A
A7D SPOIL/DEFL ACTUATOR CYL	14BCP	LFEE	A
A7D SPOIL/DEFL ACTUATOR CYL	14BCP	RFEE	A
A7D SERVO VALVE ASSY	14BCQ	LFEE	A
A7D SERVO VALVE ASSY	14BCQ	RFEE	A
A7D SPOIL/DEFL CYL ASSY	14PCN	LFEE	5
A7D SPOIL/DEFL CYL ASSY	14PCN	RFEE	5
A7D EXTENSION UNIT	14RCR	LFEE	2
A7D EXTENSION UNIT	14RCR	RFEE	2
A7DROLL MOTION TRANSMISSION	FEF	FCOH	FAAAAAA
A7DROLL MOTION TRANSMISSION	FEF	FE	SAAAAAA
A7DROLL MOTION TRANSMISSION	FEF	LFEB	FAAAAAA

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7DROLL MOTION TRANSMISSION FEF RFLP FAAAAAAAAA
A7DROLL MOTION TRANSMISSION FEF LFLE FAAAAAAAAA
A7DROLL MOTION TRANSMISSION FEF RFLE FAAAAAAAAA
A7DROLL MOTION TRANSMISSION FEF FEJC FAAAAAAAAA
A7DROLL MOTION TRANSMISSION FEF FEJH FAAAAAAAAA
A7D ROLL AFCS CONTROL ASSY 14RAD FEFA FEF A
A7D SPOILZ/AIL TRIM MIXING LINK 14RAJ FEFB FEF A
A7D CONTROL ROD 14RAF FEFC FEF A
A7D BELLCRANK/IDLER 14RAG FEFD FEF A
A7D QUICK DISCONNECT 14BCJ FEFF FEF 5
A7D MANUAL COMMAND FEG FEF FEKA 508888888
A7D ROLL FEEL ISOLATN ACT. ASSY 14BCA FEGB FEG A
A7D ROLL FEEL ISOLATN ACTUATOR 14BCB FEGB FEG A
A7D ROLL FEEL ISO SERVO VALVE 14BCC FEGB FEG A
A7DROLL TRIM FEH FEG 000000010
A7DROLL TRIM FEH FEH FAAAAAAAAA
A7D ELECT MECH TRIM ACTUATOR 14BDA FEHA FEH A
A7DPILOT ACTION FEJ FER AAAAAAAAAA
A7DAUTOMATIC ROLL STABILIZATION FEJA FEJZ 011111110
A7DAFCS ROLL RATE FEJB CBAFY 111111111
A7DROLL RATE COMMAND SIGNAL FEJB FEJA AAAAAAAAAA
A7D RATE GYRO 57LAG FEJBA FEJB A
A7D RELAY AMPLIFIER 57CBB FEJBB FEJB A
A7D ROLL GYRO 2 EA 57BAJ FEJBC FEJB 1
A7DAFCS HYD PRESS CONTROL FEJC FEJG FAAAAAAAAA
A7DAFCS HYD PRESS CONTROL FEJC FEJK AAAAAAAAAA
A7D ROLL SERVO SHUT OFF VALVE 57EPA FEJCA FEJC A
A7D ROLL FOLLOW UP TRANSDUCER 57EBO FEJCB FEJC 2
A7D RELAY AMPLIFIER 57CBB FEJCC FEJC A
A7D VOLTAGE CALIBRATOR 57CPW FEJCD FEJC A
A7DSTICK FORCE COMMAND SIGNAL FEJD FEJA 111111111
A7DSTICK FORCE COMMAND SIGNAL FEJD FEKA AAAAAAAAAA
A7D STICK ROLL FORCE TRANSDUCER 57AAE FEJDA FEJD 2
A7D STICK FORCE XDUCER ADAPTER 57AAH FEJDB FEJD 1
A7D THREE STAGE AMPLIFIER 57CBO FEJDC FEJD 5
A7D DUAL ELECTRONIC SWITCH 3EA 57CRE FEJDD FEJD 1
A7D RELAY AMP2 GREATER 1.5 LBS 57CBB FEJDE FEJD 5
A7DCONTROL AUG SELECT FEJE FDEB FEJF 111111111
A7DCONTROL AUG SELECT FEJE FDEF FEJF 111111111
A7DCONTROL AUG SELECT FEJE FDEV FEJF 111111111
A7DCONTROLLED AUG SELECT FEJE FEJA FEJF 111111111
A7DCONTROLLED AUG SELECT FEJE FEKC FEJF 111111111
A7D MODE SELECT PANEL 57AAA FEJFA FEJE 1
A7D MODE SELECT SWITCH 57AAC FEJEH FEJE A
A7DATTITUDE HOLD SELECT FEJF FDEB FEJE 111111111
A7DATTITUDE HOLD SELECT FEJF FDEF FEJE 111111111
A7DATTITUDE HOLD SELECT FEJF FDEV FEJE 111111111
A7DATTITUDE HOLD SELECT FEJF FDEZ AAAAAAAAAA
A7DATTITUDE HOLD SELECT FEJF FEJA FEJE 111111111
A7DATTITUDE HOLD SELECT FEJF FEKC FEJE 111111111

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1234567890123456789012345678901234567890123456789012345678901234567890
A7D FWD LOAD LIMITING LINK      14FAB FELA FFL A
A7D CONTROL RODS                14FAF FELB FEL A
A7D BELLCRANK/IDLER             14FAG FFLC FFL A
A7D AIL CONNECT LINK SWIVEL ASY 14FAN FELD FEL A
A7D CONTROL ROD                14AAB FELE FEL A
A7D BELL CRANK                 14AAC FELF FEL A
A7D SWIVEL                     14AAD FELG FEL A
A7D DAMPER AND FEEL             FEM FEG 111111111
A7D AILERON FEEL TENSION SPRING 14FAA FEMA FEM 1
A7D POWERWEIGHT ASSY           14FAL FEMB FEM 1
A7D VISCOUS DAMPER             14FAM FEMC FEM 0
A7D EXTENSION UNIT            14FCG FEMD FEM 1
A7D MANUAL INITIATE            FEN FEL AAAAAA
A7D STICK GRIP                 14AAA FENA FEN 1
A7D STICK ASSY                 14AAO FENB FEN 5
A7D TRIM SIGNAL CONDITIONER     FEP FEH AAAAAA
A7D MODULE A1                  14FEA FEPA FEP 5
A7D MODULE A2                  14FEB FEPB FEP 5
A7D HOUSING ASSY               14FEC FEPC FEP 1
A7D COMPONENT ASSY A3          14FED FEPD FEP 5
A7D COMPONENT ASSY A4          14FEE FEPE FEP 5
A7D ROLL TRIM AMP              14FEO FEPE FEP A
A7D TRIM INFORMATION           FEQ FEJ 111111111
A7D TRIM INDICATOR             14FEA FEQA FEQ A
A7D TRIM ACTUATOR SYNCHRONIZER 14FEB FEQB FEQ A
A7D TRIM CONTROL               FER FEP AAAAAA
A7D STICK GRIP                 14AAA FERA FER A
A7D TRIM DISENGAGE SWITCH      14FEC FERB FER A
A7D HYDRAULIC ATTENUATION       FEZ FE 111111111
A7D SPOILER/DEFLECTOR POSITION  LEZ LFF K FEA AAAAAA
A7D SPOILER/DEFLECTOR POSITION  RFZ RFL K FEA AAAAAA
A7D BRND CONTROL               G A500000A1
A7D GROUND SPEED CONTROLLED     GA A300000A
A7D EMERGENCY SPEED CONTROL     GAA C 000000C10
A7D EMERGENCY SPEED CONTROL     GAA S 000000C10
A7D HOOK DEPLOY CONTROL         GAAA QZFX FAAAAA
A7D ARRESTING HOOK DEPLOYED     GAAA GAA AAAAAA
A7D HOOK DEPLOYMENT CONTROLLED  GAAB GAAB AAAAAA
A7D HOOK CONTROL SWITCH         13HDA GAABZ A
A7D HOOK HANDLE                 13HCA GAAC GAAB A
A7D HOOK MECHANICALLY ENABLED   GAAC GAAB AAAAAA
A7D HOOK UP-LOCK & BUMPER       13HCB GAACU GAAC 3
A7D HOOK DRAG LINK              13HAD GAACV GAAC 1
A7D CENTERING SPRING            13HAC GAACW GAAC 2
A7D HOOK SHANK                  13HAB GAACX GAAC 8
A7D HOOK POINT                  13HAA GAACY GAAC 8
A7D HOOK MECH ACTUATOR          13HBB GAACZ GAAC 5
A7D ARREST HOOK MOTIVE FORCE     GAAD GAAA AAAAAA
A7D AUX HOOK MOTIVE FORCE        GAAD K GAAP AAAAAA
A7D PRESSURE BYPASS VALVE       13HBD GAAEZ GAAE 8

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D NORMAL HOOK MOTIVE FORCE GAAF GAAD GAAF 111111111
A7D HOOK SOLENOID SELECT VALV13HFA GAFFZ GAFF 8
A7D ANTI SKID ATTENUATE GAB GAC S111111111
A7D CONTROLLED BRAKING EMPLOYED GAC GA 110000051
A7D BRAKE SHUTTLE VALVE 2FA 13EPN GACU GBA 8
A7D BRAKE SHUTTLE VALVE 2FA 13EPN GACV GAC 8
A7D BRAKE SWIVELS 4EA. 13EPG GACW GBA 3
A7D BRAKE SWIVELS 4EA. 13EPG GACX GAC 3
A7D AC BRAKE ASSY 2FA 13EAA GACY GBA A
A7D AC BRAKE ASSY 2FA 13EAA GACZ GAC 9
A7D EMERGENCY BRAKES EMPLOYED GAD GAC K GAG AAAAAAAAAA
A7D EMER BRAKE PRESSURE SUPPL'D GADA GAD AAAAAAAAAA
A7D ACCUMULATOR PACKAGE 13ECA GADAV GADA 2
A7D F.BRAKE ACCUMULATOR 13ECC GADAW GADA A
A7D THERMAL RELIEF VALVE 13ECF GADAX GADA 2
A7D PRESSURE DUMP VALVE 13ECD GADAY GADA 0
A7D PRE-CHARGE SHUTOFF VALVE 13ECB GADAZ GADA 0
A7D EMERGENCY BRAKE ACTUATION GADB GAD AAAAAAAAAA
A7D EMER. BRAKE HANDLE 9913C GADBY GADB A
A7D E. BRAKE POWER VALVE 13ECF GADBZ GADB A
A7D UTILITY BRAKE FORCE SUPPL'D GAF GAGA AAAAAAAAAA
A7D ACCUMULATED PRESS. SUPPLIED GAFA GAF K GAFB AAAAAAAAAA
A7D ACCUM. SHUTOFF VALVE 13EBH GAFAY GAFA 5
A7D ACCUMULATOR UTILITY BRAKE13EBJ GAFBZ GAFA 4
A7D NORMAL HYDRAULIC PRESS SUPP GAFB GAFA 111111111
A7D HYD.PRESS REGULATOR 13EBK GAFBZ GAFB 3
A7D UTILITY BRAKES EMPLOYED GAG GAC GAD 111111111
A7D UTILITY BRAKES EMPLOYED GAG GBA AAAAAAAAAA
A7D UTILITY BRAKES ACTUATED GAGA GAG AAAAAAAAAA
A7D R RUDDER PED. BRAKE LINKG9913E GAGAW GAGA 5
A7D L RUDDER PED. BRAKE LINKG9913D GAGAX GAGA 5
A7D RT POWER BRAKE VALVE 13EBA GAGAY GAGA 8
A7D LEFT POWER BRAKE VALVE 13EBA GAGAZ GAGA 8
A7D BRAKE FORCE DISTRIBUTED GAGB GAG AAAAAAAAAA
A7D BRAKE SERVO VALVE 13EBC GAGZ GAG 8
A7D BRAKES PROPORTION'LY APPL'D GAH GAGH K GAHC 500000015
A7D UTILITY BRAKES APPLIED GAHA GAGA AAAAAAAAAA
A7D UTILITY BRAKES APPLIED GAHA GAGH AAAAAAAAAA
A7D KINESTHETIC FEED BACK GAHB GBF 111111111
A7D INERTIA REEL CABLE 12BDF GAHBW GAHB 1
A7D SHOULDER HARNESS STRAPS 12BDC GAHBX GAHB 1
A7D INERTIA REEL 12BDB GAHBY GAHR 1
A7D CONT ASSY INERTIA REEL 12BDA GAHBZ GAHR 1
A7D AUTO ANTI-SKID ENGAGED GAHC GAR S100000021
A7D AUTO ANTI-SKID ENGAGED GAHC GAGB GAH F100000021
A7D SKID SOLENOID SHUTOFF VAL13EBH GAHCY GAHC 8
A7D ANTI-SKID CONTROL VALVE 13EBH GAHCZ GAHC A
A7D DIFFERENTIAL BRAKE VALVE 13EBL GAHZ GAH 3
A7D DIFFERENTIAL BRAKE VALVE 13EBL GAHZ GBA 3
A7D SKID CONTROL SELECTED GAK GAFA FAAAAAAAAA

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A7D SKID CONTROL SELECTED GAK GAH FAAAAAAAAA
A7D SKID CONTROL SELECTED GAK GAHC AAAAAAAAAA
A7D ANTI SKID STATUS GAKA GAK 111111111
A7D ANTI SKID WARN LIGHT 12DBO GAKAA GAKA 5
A7D ANTI-SKID TEST CARD 13FFW GAKW GAK 0
A7D ANTI-SKID CONT MOD A-2 13EFM GAKX GAK A
A7D ANTI-SKID CONT MOD A-1 13EFA GAKY GAK A
A7D ANTI-SKID SWITCH 13ELE GAKZ GAK A
A7D BRAKE ACCUM PRE-CHARGE GAL GADA AAAAAAAAAA
A7D BRAKE ACCUM PRE-CHARGE GAL GAFA AAAAAAAAAA
A7D WHEEL DEACCELERATION SENSED GALA GAHC AAAAAAAAAA
A7D ACCUM PRE-CHARGE PACKAGE 45DAA GALX GAL 1
A7D GAGE 45DAH GALT DB 0
A7D EXCITER RING (2EA) 13FEB GALT A
A7D SYSTEM CHARGE VALVE 45DAD GALZ A
A7D WHEEL SPEED SENSOR 2EA 13FLA GALZA A
A7D RUDDER PEDAL PRESSURE APPLY GAM GATA AAAAAAAAAA
A7D RUDDER PEDAL PRESSURE APPLY GAM GHDA AAAAAAAAAA
A7D RIGHT RUDDER PEDAL ASSY 14DBF GAM 2
A7D LEFT RUDDER PEDAL ASSY 14DBF GAM 2
A7D THRUST DECREASE GAX GA 5000000A5
A7D DIRECTIONAL CONT'L MAINT'D GB G 110000011
A7D DIFFERENTIAL BRAKING APPLIED GRA GF K GBB A000000AA
A7D DIFFERENTIAL BRAKING APPLIED GBA GBE F22222222
A7D NOSE WHEEL SHIMMY DAMPED GBAB GBA A000000A0
A7D NOSE WHEEL SHIMMY DAMPED GBAB GBR F100000001
A7D NLG DAMPER ORIFICE 9913H GRABZ GBAB A
A7D NOSE WHEEL POSITION CONTROL GBR GB GBA 110000011
A7D NOSE WHEEL STEERING EMPLOYED GBRA GBB A50000005A
A7D BELL CRANK PIN 13FCB GBHAX GBBA A
A7D STEERING PELL CRANK 13FCP GBHAY GBBA 8
A7D SERVO CONTROL VALVE 13FAD GBHAZ GBBA 8
A7D STEERING CYLINDER NLG 13FAB GBHV GBB A
A7D NLG UNIVERSAL JOINT 13FCC GBHW GBB 3
A7D NLG STEERING LINK 13FCA GBHX GBB 5
A7D EXT. JOINT NG STEERING 13FAF GBHY GBB 5
A7D N.G. STEERING SWIVEL 2EA 13FAE GBHZ GBB 5
A7D NOSE WHEEL STEERING ENABLED GBC GBBA AAAAAAAAAA
A7D COMPRESSION SWITCH 13ABB GBC GBC A
A7D AIR REFUEL HANDLE 46GDA GRCT GBC A
A7D NLG DAMPER SHUTOFF VALVE 9913J GRCU GBC A
A7D STEERING WDG SWITCH 13FBC GBCV GBC 5
A7D STEERING CUTOFF SWITCH 13FBD GHCV GBC 5
A7D NG STEERING SLEECT VALVE 13FAA GRCX GRC A
A7D STEERING HOLD RELAY 9913G GRCY GRC A
A7D STEERING ENGAGE SWITCH 14AAA GRCZ GBC A
A7D NOSE WHEEL STEER ACTUATED GBD GBBA AAAAAAAAAA
A7D NOSE WHEEL STEER ACTUATED GBD GRE FAAAAAAAAA
A7D STEERING COMMANDS APPLIED GBD GBO AAAAAAAAAA
A7D FEED BACK TRANSDUCER 13FAC GBDX GBO 8

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A7D	NGS AMPLIFIER	13FEB	GBUY	GBD	7
A7D	INPUT TRANSDUCER	13FEA	GBDZ	GBD	8
A7D	DIRECTION EFFECT PERCEIVED		GBE	GBF	FAAAAAAAAA
A7D	PILOT ACTION		GBF	GAM	AAAAAAAAAA
A7D	PILOT ACTION		GBF	GAM	AAAAAAAAAA
A7D	PILOT ACTION		GBF	GBA	AAAAAAAAAA
A7D	NOSE WHEEL TIRE (2EA)	13AFB	GBY	GF	5
A7D	NOSE WHEEL (2EA)	13AFA	GBZ	GE	3
A7D	WING FOLD		GC	OZERY	FAAAAAAAAA
A7D	WING FOLD		GC	G	00000000
A7D	CONTROL ASSY LOCK LEVER	49FAA	GCA	GC	4
A7D	HINGE PIN	49FAB	GCB	GC	A
A7D	PELL CRANKS	49FAC	GCC	GC	5
A7D	PUSH PULL CONTROL ASSY	49FAD	GCD	GC	A
A7D	CONTROL RODS	49FAE	GCE	GC	1
A7D	SELECTOR VALVE	49FAF	GCF	GC	1
A7D	WING FOLD ACT CYL	49FEG	GCG	GC	1
A7D	CYLINDER PIN PULL FWD	49FEH	GCH	GC	1
A7D	AFT PIN PULL CYL	49FEI	GCI	GC	1
A7D	MANUAL GROUND SELECT VLV	49FEJ	GCK	GC	0
A7D	THERMAL RELAY VLV	49FEK	GCL	GC	0
A7D	PRESS SPREAD SHD VLV	49FEL	GCM	GC	0
A7D	SWIVEL - WING FOLD CYL	49FEM	GCM	GC	5
A7D	CONT. SWITCH	49FEN	GCP	GC	1
A7D	TIME DELAY RELAY	49FEO	GCO	GC	1
A7D	LANDING GEAR		L		AA00000AA
A7D	EXTEND LANDING GEAR		LA	L	00000000
A7D	LANDING GEAR DOWN		LAA	END	AAAAAAAAAA
A7D	EXTEND MAIN LANDING GEAR		LAA	LA	AAAAAAAAAA
A7D			LAA	LC	FAAAAAAAAA
A7D	LEFT MLG DOWN / LOCKED		LLAAA	LAA	AAAAAAAAAA
A7D	RT MLG DN / LOCK		RLAAA	EAZ	FAAAAAAAAA
A7D	RIGHT MLG DOWN / LOCKED		RLAAA	LAA	AAAAAAAAAA
A7D	ACTUATOR, MAIN LANDING GEAR	13BAC	LLAAAA	LLAAA	1
A7D		13BAC	LLAAAA	LLBAB	A
A7D	ACTUATOR, MAIN LANDING GEAR	13BAC	RLAAAA	RLAAA	1
A7D		13BAC	RLAAAA	RLPAH	4
A7D	SWIVEL, MAIN LG ACTUATOR	13BAD	LLAAAB	LLAAA	0
A7D		13BAD	LLAAAB	LLHAB	5
A7D	SWIVEL, MAIN LG ACTUATOR	13BAD	RLAAAB	RLAAA	0
A7D		13BAD	RLAAAB	RLHAB	5
A7D	LEFT MLG DOORS OPEN		LLAAB	LLAAA	AAAAAAAAAA
A7D	RIGHT, MAIN LG DOORS OPEN		RLAAB	RLAAA	AAAAAAAAAA
A7D	DOOR, MLG, UPPER LH / RH	13AAA	LLAABA	LLAAB	9
A7D		13AAA	LLAABA	LLPAA	9
A7D		13AAA	RLAABA	RLAAB	9
A7D		13AAA	RLAABA	RLHAA	9
A7D	DOOR, MLG, LOWER LH / RH	13AAB	LLAABR	LLAAB	9
A7D		13AAB	LLAABR	LLBAA	9
A7D		13AAB	RLAABR	RLAAB	9

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A7D	13AAB	RLAABR	RLBAA	9
A7DTUBE ASSY, TORQUE	13AAC	LLAABC	LLAAB	A
A7D	13AAC	LLAABC	LLBAA	A
A7D	13AAC	RLAABC	RLAAB	A
A7D	13AAC	RLAABC	RLBAA	A
A7DARM, TORQUE TUBE, OUTBOARD L/R	13AAD	LLAABD	LLAAB	A
A7D	13AAD	LLAABD	LLBAA	A
A7D	13AAD	RLAABD	RLAAB	A
A7D	13AAD	RLAABD	RLBAA	A
A7DARM, TORQUE TUBE, INBOARD L/R	13AAE	LLAABE	LLAAB	A
A7D	13AAE	LLAABE	LLBAA	A
A7D	13AAE	RLAABE	RLAAB	A
A7D	13AAE	RLAABE	RLBAA	A
A7DARMS, LINK OUTBOARD LH / RH	13AAF	LLAABF	LLAAB	A
A7D	13AAF	LLAABF	LLBAA	A
A7D	13AAF	RLAABF	RLAAB	A
A7D	13AAF	RLAABF	RLBAA	A
A7DARMS, LINK INBOARD LH / RH	13AAG	LLAABG	LLAAB	A
A7D	13AAG	LLAABG	LLBAA	A
A7D	13AAG	RLAABG	RLAAB	A
A7D	13AAG	RLAABG	RLBAA	A
A7D DOOR, MAIN LG DRAG STRUT	13AAH	LLAABH	LLAAB	A
A7D	13AAH	LLAABH	LLBAA	A
A7D	13AAH	RLAABH	RLAAB	A
A7D	13AAH	RLAABH	RLBAA	A
A7D LINK, DRAG STRUT DOOR	13AAJ	LLAABJ	LLAAB	A
A7D	13AAJ	LLAABJ	LLBAA	A
A7D	13AAJ	RLAABJ	RLAAB	A
A7D	13AAJ	RLAABJ	RLBAA	A
A7D DOOR, MAIN LG, AFT LH / RH	13AAK	LLAABK	LLAAB	A
A7D	13AAK	LLAABK	LLBAA	A
A7D	13AAK	RLAABK	RLAAB	A
A7D	13AAK	RLAABK	RLBAA	A
A7D CYLINDER, MLG DOOR ACTUATING	13BAE	LLAABL	LLAAB	A
A7D	13BAE	LLAABL	LLBAA	A
A7D	13BAE	RLAABL	RLAAB	A
A7D	13BAE	RLAABL	RLBAA	A
A7D SWIVEL, MLG DOOR ACTUATOR	13BAF	LLAABM	LLAAB	5
A7D	13BAF	LLAABM	LLBAA	5
A7D	13BAE	PLAABM	RLAAB	5
A7D	13BAE	RLAABM	RLBAA	5
A7D EXTEND NOSE LANDING GEAR		LAB	LA	AAAAAAAAAA
A7D EXTEND NOSE LANDING GEAR		LAB	LC	FAAAAAAAAAAA
A7D NLG DN / LOCK		LABA	GRC	FAAAAAAAAAAA
A7D NOSE LG DOWN / LOCKED		LABA	LAB	AAAAAAAAAA
A7D CYLINDER, NOSE LG ACTUATING	13BBA	LABAA	LARA	1
A7D	13BBA	LABAA	LEBB	A
A7D EXTENSION UNIT, ACT CYL 1-4 IN	13BBC	LABAB	LABA	5
A7D	13BBC	LABAB	LBBB	5
A7D NOSE LG DOORS OPEN		LABC	LABA	AAAAAAAAAA

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A70000R, NOSE LANDING GEAR LH/RH13ATA	LABCA	LABC	9
A70	13ACA	LABCA	9
A70LINKS, DOOR	13ADB	LABCB	9
A70	13ADB	LABCH	9
A70SHAFT, NOSE LANDING GEAR DOOR13ADC	LABCC	LABC	A
A70	13ADC	LABCC	A
A70BELL CRANKS	13ADD	LABCD	A
A70	13ADD	LABCD	A
A70CYLINDER, NLG DOOR ACTUATING	13BEH	LABCE	A
A70	13BEH	LABCE	A
A70LAND GEAR ACTUATION<EXTEND@	LAC	LA	SAAAAAAAAA
A70	LAC	LLAAB	FAAAAAAAAA
A70	LAC	RLAAB	FAAAAAAAAA
A70LAND GEAR ACTUATION<EXTEND@	LAC	LABC	FAAAAAAAAA
A70EMERGENCY OPERATION<EXTEND@	LACA	LAC	K LACC AAAAAAAAAA
A70HYD POWER REG / DISTR	LACB	LACA	AAAAAAAAAA
A70VALVE, BYPASS SELECT<PRES OP@13CAG	LACBA	LACH	A
A70EXTENSION UNIT, ACT CYL 1-4 IN13BPC	LACMB	LACB	8
A70HYDRA PWR ACCUMULATION<EMER@	LACC	LACB	AAAAAAAAAA
A70ACCUMULATOR PKG, LG EMERGENCY13CAA	LACCA	LACC	A
A70ACCUMULATOR	13CAC	LACC	A
A70EMERGENCY MODE SELECTION	LACD	LACC	AAAAAAAAAA
A70VALVE, MAN HYD EMER LG CTRL 13CAF	LACDA	LACD	A
A70ELECTRICAL CONTROL	LACF	LPC	AAAAAAAAAA
A70SOLENOID, LG HANDLE DOWNLOCK 13DEA	LACFA	LACE	A
A70NORMAL SELECT MODE	LACF	DADF	FAAAAAAAAA
A70NORMAL SELECT MODE	LACF	DADK	FAAAAAAAAA
A70 NORMAL SELECT MODE	LACF	FBF	F0000000AO
A70NORMAL SELECT MODE<EXTEND@	LACF	LACK	AAAAAAAAAA
A70NORMAL SELECT MODE	LACF	MGSC	000000000
A70NORMAL SELECT MODE	LACF	MSD	AAAAAAAAAA
A70HANDLE, LG CTRL NORM / EMERG13DAA	LACFA	LAC	A
A70PULLEYS, LG CTRL NORM / EMERG13FAE	LACFB	LAC	A
A70VALVE, MANUAL SELECTUR<HYDRL@13FAA	LACFC	LAC	A
A70 DUMMY	9999J	LACFD	0
A70NORMAL OPERATION, LG ACTUAT	LACG	LAC	111111111
A70NORMAL OPERATION, LG ACTUAT	LACG	LPC	AAAAAAAAAA
A70HYD PWR REG / DISTR	LACH	LACG	AAAAAAAAAA
A70HYD POWER SUPPLY	LACK	LACH	AAAAAAAAAA
A70OVERRIDE TO RETRACT	LACX	LACE	K LACY AAAAAAAAAA
A70SWITCH, DOWNLOCK EMERG RELS 13DBC	LACXA	LACX	A
A70LANDING GEAR UP SWITCH	LACY	BEF	AAAAAAAAAA
A70NORMAL RETRACT ACTIVATION	LACY	DADF	FAAAAAAAAA
A70NORMAL ACTIVATION<RETRACT@	LACY	LACE	111111111
A70 NORMAL RETRACT ACTIVATION	LACY	MASC	FAAAAAAAAA
A70NORMAL RETRACT ACTIVATION	LACY	MSD	AAAAAAAAAA
A70WRIGHT OFF WHEELS	LACY	UAW	FAAAAAAAAA
A70SWITCH, DECK COMPRESSION&RTMG13CBE	LACYA	LACY	A
A70ACCUMULATOR HEATING	LACZ	LACC	000555550
A70BLANKET, HYD ACCUM HEATING 13CPA	LACZA	LACZ	A

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0000000001111111112222222223333333334444444445555555556666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890
A70POSITION INDICATE, LG LAD LACD AAAAAAAAAA
A70POSITION INDICATE LAD LACX AAAAAAAAAA
A70LIGHT, LG HANDLE WARNING 13DCA LADA LAU 1
A70INDICATOR, NOSE GEAR POSITION 13DCB LAOB LAD 1
A70INDICATOR, MAIN GEAR POSITION 13DCC LADC LAD 1
A70RELAYS, LG POS IND SYST 13DCF LAOD LAD 1
A70LIGHTS, WHLS-FLAP WARN SYST 13DDB LADE LAD 1
A70RETRACT LANDING GEAR LB LX 111111111
A70RETRACT MAIN LANDING GEAR LBA LB AAAAAAAAAA
A70LEFT MAIN LG DOORS CLOSED LLBAA LBA AAAAAAAAAA
A70RIGHT MAIN LG DOORS CLOSED RLBA A LBA AAAAAAAAAA
A70LEFT MAIN LG UP / LOCKED LLBAB LLBAA AAAAAAAAAA
A70L MAIN LG UP/LOCKED LLBAB MBRJ 111111111
A70LANDING GEAR UP RLBA CCAG FAAAAAAAAA
A70RIGHT MAIN LG UP / LOCKED RLBA RLBA AAAAAAAAAA
A70STRUT ASSY, MLG UPLOCK SPRING 13ABF LLBAA LLBAB A
A70 13ABF RLBA RLBA A
A70DOCK, MAIN LG UPLOCK 13ABG LLBAB LLBAB A
A70 13ABG RLBA RLBA A
A70RETRACT NOSE LANDING GEAR LBB LB AAAAAAAAAA
A70NOSE LG DOORS CLOSED LBB LB AAAAAAAAAA
A70NOSE LG UP / LOCKED LBB LBA AAAAAAAAAA
A70 13ABF LBBBA LABC A
A70MECHANISM, NOSE LG UPLOCK 13ABE LBBBA LBBB A
A70LANDING GEAR ACTIVATION RETA LBC LB SAAAAAAAAA
A70 LBC LLBA FAAAAAAAAA
A70 LBC RLBA FAAAAAAAAA
A70 LBC LBBB FAAAAAAAAA
A70ROLLING SUPPORT LC L 1900000A1
A70MLG WHEEL 13ACA LCA LC 9
A70MLG TIRE 13ACH LCB LC 9
A70MLG SHOCK STRUT 13ABA LCC LC 8
A70MLG TENSION STRUT 13ABB LCD LC 8
A70MLG TRUNNION SHOCK STRUT 13ABC LCE LC 8
A70MLG TRUNNION TENSION STRUT 13ABD LCF LC 8
A70MLG TRUNNION ORAG STRUT 13ABE LCG LC 8
A70MLG WHEEL 13AFA LCH LC 7
A70MLG TIRE 13AFB LCI LC 7
A70MLG SHOCK STRUT 13AFA LCJ LC 6
A70MLG LOWER LINK 13AFB LCK LC A
A70MLG UPPER LINK 13AFC LCL LC A
A70MLG AXLE BEAM 13AED LCM LC 9
A70RETRACT SENSITIVE ATTENUATOR LX L 010000000
A70MISSION SUPPORT M 111111111
A70VISUAL AIM INFO MAAB MBKW 000000000
A70RELEASE TONE INFO MAAT MBRW 000000000
A70ARM STA CONTROL UNIT MASC MB 111111111
A70ARM STA CONTROL UNIT MASC MG 111111111
A70 ARM STA CONTROL UNIT MASC MR AAAAAAAAAA
A70 CKT CARD BIT LOGIC NO1 74EAA MASCB MASC 1

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D CKT CARD BIT LOGIC NO2      74EAB MASCC MASC 1
A7D CKT CARD BIT LOGIC NO3      74EAC MASCD MASC 1
A7D CKT CARD BIT LOGIC NO4      74EAD MASCE MASC 1
A7D CKT CARD BIT LOGIC NO5      74EAE MASCF MASC 1
A7D CKT CARD BIT LOGIC NO6      74EAF MASCG MASC 1
A7D CKT CARD BIT LOGIC NO7 VOLT 74EAG MASCH MASC 1
A7D CKT CARD CONT.LOGIC NO1 52 74EAK MAS CJ MASC 1
A7D CKT CARD CONT.LOGIC NO1 384 74EAL MASCK MASC 1
A7D CKT CARD CONT.LOGIC NO586 74EAM MASCL MASC 1
A7D CKT CARD CONT.LOGIC NO7 74EAN MASCM MASC 1
A7D CKT CARD CONT.LOGIC NO8 74EAP MASCN MASC 1
A7D CKT CARD CONT.LOGIC NO9 74EAQ MASCP MASC 1
A7D CKT CARD CONT.LOGIC NO10 74EAR MASCO MASC 1
A7D CKT CARD CONT.LOGIC NO11 74EAS MASCR MASC 1
A7D CKT CARD CONT.LOGIC NO12 74EAT MASCS MASC 1
A7D CKT CARD CONT.LOGIC NO13 74EAU MASCT MASC 1
A7D CKT CARD CONT.LOGIC NO15 74EAV MASCU MASC 1
A7D CKT CARD CONT.LOGIC NO16 74EAW MASCV MASC 1
A7D CKT CARD BIT BUFFER NO162 74EBA MAS CW MASC 1
A7D CKT CARD BIT BUFFER NO3 74EBB MAS CX MASC 1
A7D CKT CARD BIT BUFFER NO4 74EBC MAS CY MASC 1
A7D CKT CARD LOGIC BUFFER NO1 74EBE MAS CZ MASC 1
A7D CKT CARD LOGIC BUFFER NO2 74EBG MASDA MASC 1
A7D CKT CARD LOGIC BUFFER NO3 74EBH MASDB MASC 1
A7D CKT CARD LOGIC BUFFER NO4 74EBJ MASDC MASC 1
A7D RELAY & LAMP DRIVER NO162 74EBM MASDD MBAA 1
A7D MISCELLANEOUS DRIVER 74EBN MASDE MASC 1
A7D SHIFT REGISTER 74EBR MASDF MASC 1
A7D MULTIPLEXER 74EBS MASDG MASC 1
A7D AUDIO/VIDEO 74EBV MASDH MAAT A
A7D POWER SUPPLY 74EBY MASDJ MASC 0
A7D CHASSIS 74EBZ MASDK MASC 0
A7D RESISTOR DIODE ASSY A1 74EB1 MASDL MASC 0
A7D RESISTOR DIODE ASSY A2 74EB2 MASDM MASC 0
A7D RESISTOR DIODE ASSY A3 74EB3 MASDN MASC 0
A7D RESISTOR DIODE ASSY A4 74EB4 MASDP MASC 0
A7D MOUNTING RACK 74EC0 MASDQ MASC 0
A7D BOMBS/ROCKETS/MISSILES MB M 010010010
A7D ADVISORY INFORMATION MBAA MBRW 111111111
A7D ARM ADVISORY LAMP 7EA 74DBJ MBAAA MBAA 1
A7D ARM ADVISORY IND. PANEL 74DBL MBAAB MBAA 1
A7D DETONATOR RELEASE OR FIRE MB MB 000010000
A7D SIDEWINDER CIRCUIT 74DJ0 MBRAH MBRA 1
A7D WALLFIVE CIRCUIT 74DKC MHRAS MBRA 1
A7D DISPENSER CIRCUIT 74DMO MHRAT MBRA 1
A7D ARW 77 TRANSMITTER 74DPA MBRAU MBRA 1
A7D ARW 77 ANTENNA 74DPC MBRAV MBRA 1
A7D ARW 77 MOUNT 74DPD MBRW MBRA 0
A7D ARW 77 FILMENT TRANSFORMER 74DPI MBRBX MBRA A
A7D SUU 20A EJECTOR FOOT 75AFA MBRBY MBRA 1

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12345678901234567890123456789012345678901234567890123456789012345678901234567890

A70 SUU 20A RAM ASSY	75AFB	MBRBZ	MBRA	1	
A70 SUU 20A RESISTOR PANEL	75AFE	MBRCA	MBRA	1	
A70 SUU 20A SOCKET FIRE CONTACT	75AFG	MBRCB	MBRA	1	
A70 PYLON FUSELAGE HARNESS	75AJA	MBPCC	MBRA	1	
A70 AERO 3B POWER SUPPLY	75AKA	MBRCD	MBRA	1	
A70 AERO 3B DETENT & SNUBBER	75AKB	MBRCE	MBSP	1	
A70 AERO 3B WIRING HARNESS	75AKE	MBRCF	MBRA	1	
A70 AERO 3B ADAPTER CONNECTOR	75AKF	MBRCG	MBRA	1	
A70 WING STA PYLON WIRE HARNESS	75BFC	MBRCH	MBRA	1	
A70 WING STA PYLON WIRE HARNESS	75BCC	MBRCJ	MBRA	1	
A70 WING STA PYLON WIRE HARNESS	75BCC	MBRCK	MBRA	1	
A70 UNLATCH COMMAND		MBRD	MBRA		AAAAAAAAAA
A70 UNLATCH COMMAND		MBRD	MR		FAAAAAAAAAA
A70 MANUAL COMMAND		MBRE	MBRD		111111111
A70 MANUAL COMMAND		MBRE	MBRE		FAAAAAAAAAA
A70 ARM RELEASE SWITCH	14AAA	MBREA	MBRE	A	
A70 AUTO COMMAND		MBRE	MBRD	MBRE	000000000
A70 ARM RELEASE PANEL ASSY	74BHK	MBRFA	MBRE	A	
A70 ARW 77 SELECTOR CONTROL	74BPP	MBRFB	MBRD	A	
A70 ARM SYS CONT UNIT	74LAC	MBPFC	MBRD	A	
A70 TACTICAL COMPUTER	73BAO	MBRFD	MBRE	A	
A70 QUANTITY & INTERVAL CONTROL		MBRG	MBRE		111111111
A70 ARMAMENT RELEASE CONTROL	74DBE	MBRGA	MBRG	A	
A70 MODE SELECT		MBKH	MBRE		AAAAAAAAAA
A70 ATTACK MODE CONTROL 4EACH	74BPC	MBRHA	MBRH	2	
A70 JETTISON COMMAND CONTROL		MBRJ	MB	K MBRA	000000000
A70 JETTISON COMMAND CONTROL		MBRJ	MB	T	020000000
A70 ARM STA CONT UNIT	74EAO	MBRJA	MBRJ	A	
A70 JETTISON OSCILLATOR	74FET	MBRJB	MBRJ	A	
A70 JETTISON OSCILLATOR	74EFU	MBRJC	MBRJ	A	
A70 MER MKII CARTRIDGE 6EA	97ACC	MBRJD	MBRJ	2	
A70 SALVO JETTISON		MBRK	MBRJ		111111111
A70 SALVO JETTISON SWITCH	74DCA	MBRKA	MBRK	A	
A70 SELECT JETTISON		MBRL	MBRJ		111111111
A70 SELECT JETTISON SWITCH	74LCE	MBRLA	MBRL	A	
A70 AUX JETTISON		MBRM	MBRD	K MBRE	AAAAAAAAAA
A70 AUXILIARY JETTISON SWITCH	74DDA	MBRMA	MBRM	A	
A70 DEFUSING		MBRN	MBRA		AAAAAAAAAA
A70 NOSE & TAIL ARMING CIRCUIT	74CFO	MBRNA	MBRN	A	
A70 ARM STA CONT UNIT	74EAO	MBRNB	MBRN	A	
A70 FUSING SWITCH	74LEA	MBRNC	MBRN	A	
A70 STATION READY SELECT		MBRQ	MBRA		FAAAAAAAAAA
A70 STATION READY SELECT		MBRQ	MBRA		AAAAAAAAAA
A70 ARMAMENT SELECT PANEL	74DBA	MBRQA	MBRQ	1	
A70 STA SELECT SWITCHES 7EA	74DBF	MBRQB	MBRQ	1	
A70 RELEASE SEQUENCE CONTROL		MBRS	MB		111111111
A70 SINGLE/PAIR/SIMULT SWITCH	74DEK	MBRSA	MBRS	2	
A70 ARM STA CONT UNIT	74EAD	MBRSB	MBRS	1	
A70 SUU 20 BOMB INTERVALOMETER	75AFD	MBRSC	MBRS	1	
A70 SUU 20 ROCKET INTERVALOMETER	75AFH	MBPSD	MBRS	1	

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70TARGET DESIGNATE MBRT MBRT 111111111
A70 TARGET DESIGNATE SWITCH 14AAA MBRTA MBRT A
A70PILIT ACTION MBRW MBRTF AAAAAA
A70STORES SUSPENSION MBS MB AA55155AA
A70STORES SUSPENSION MRS MBAA FAAAAA
A70WING STATION STORES MBSA MBS AAAAAA
A70WING STATION STORES MBSA MEA FAAAAA
A70 RACK MAU 128/A OR 120/A 6EA75ACG MBSAA MBSA A
A70 BOMB RACK SUPPORT ASSY 2EA 75HRA MBSAB MBSA 2
A70 BOMB RACK SUPPORT ASSY 2EA 75HCA MBSAC MBSA 2
A70 BOMB RACK SUPPORT ASSY 2EA 75EDA MBSAD MBSA 1
A70SINGLE SUSPENSION MBSB MBSA 222222222
A70 SUU 20 BOMB/ROCKET DISPENSER75AFC MBSBA MBSB A
A70 SUU 20 AFT SWAY BRACE ASSY 75AIC MBSBR MBSB 2
A70 SUU 42/A BOMB/RKT DISPENSER75AGO MBSHO MBSB A
A70 SUU 20 ROCKET TUBES & DETN+75AFF MBSRE MBSB 1
A70TRIPLE SUSPENSION 3EA MBSA MBSA 333333333
A70 TRIPLE EJECTOR RACK 75ADO MBSA MBSA 3
A70MULTI SUSPENSION 6EA MBSU MBSA 222222222
A70 MULTI EJECTOR RACK 75AEO MBSOA MBSO 2
A70FUSELAGE SUSPENSION MBSF MRS AAAAAA
A70 AERO 38 RAIL ASSY 2EACH 75AKC MBSFA MBSF 5
A70 AERO 38 NOSE ASSY 75AKD MBSFB MBSF 1
A70 FUSE STA 485 PYLON ASSY 75BAO MBSFC MBSF 5
A70WEAPON DEFENSE ME M 000000000
A70ACTIVE ECM MEA ME 000000000
A70 ALQ 71 POD 76HAO MEAA MEA A
A70 ECM SYS ALQ&72 76QCG MEAAA MEA A
A70 ALQ 87 POD 76HEO MEAK MEA A
A70 ALQ 101 POD 76HFO MEAC MEA A
A70 ECM SYS ALQ&119 76XCG MEACA MEA A
A70 UNIVERSAL CONTROL 76HGA MEAD MEA A
A70 CONTROL 76FEO MEAE MEA A
A70R.F.BLANKING MER ME 000000000
A70 CHASSIS 76CAA MERA MEB 1
A70 CKT BOARD NEGATIVE CHANNEL 76CAP MEBB MEB A
A70 CKT BOARD POWER SUPPLY 76CAC MERC MEB A
A70 CKT BOARD STANDARD CHANNEL 76CAD MEBD MEB A
A70 CKT BOARD STANDARD CHANNEL 76CAE MEBE MEB A
A70 CKT BOARD STANDARD CHANNEL 76CAF MEBF MEB A
A70 EQUIPMENT RACK 76CBQ MEBG MEB 1
A70 DESTRUCT INITIATOR 76DAO MEBH MEB 1
A70PASSIVE ECM MEP ME 000000000
A70 RADAR WARNING INDICATOR PNL76FFA MEPA MEP 1
A70 AZIMUTH INDICATOR 76FGO MEPB MEP 1
A70 INDICATOR PANEL ASSY 76FKA MEPC MEP 1
A70 FWD ANTENNA 76FHO MEPHT MEP 5
A70 PULSE DELAY OSCILLATOR 76FJA MEPHU MEP 5
A70 VIDEO AMPLIFIER 76FJC MEPHV MEP 5
A70 QUADRUPLER DETECTOR 76FJF MEPHW MEP 5

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 VIDEO SWITCHING BOARD 76FJG MEPHX MEP 5
A70 AMPLIFIER DETECTOR 76CAA MEPWA MEP 5
A70 VIDEO AMPL 76GAB MEPWB MEP 5
A70 DEMODULATOR 76GAC MEPWC MEP 5
A70 SIGNAL LOGIC 76GAD MEPWD MEP 5
A70 REGULATOR AMPL. 76GAE MEPWF MEP 5
A70 COUNTER 76GAF MEPWF MEP 0
A70 SIGNAL COMPARATOR 76GAG MEPWG MEP 5
A70 SIGNAL COMPARATOR 76GAH MEPWH MEP 5
A70 PULSE GEN 76GAJ MEPWJ MEP 5
A70 ANTENNA 76GHO MEPWK MEP 5
A70 CIRCUIT CARD ASSY 37A2 76FEA MEPXA MEP 5
A70 CIRCUIT CARD ASSY 36A4 76FFB MEPXB MEP 5
A70 CIRCUIT CARD ASSY 18A3 76FEC MEPXC MEP 5
A70 CIRCUIT CARD ASSY 37A1 76FFD MEPXD MEP 5
A70 RADAR SET CONTROL APR 36/3776FEE MLPXE MEP A
A70 FUSING SELECT MFS MRKA 000000000
A70 NOSE AND TAIL ARMING CKT 74DEO MFSA MFS A
A70 FUSING SWITCH 74DEA MFSB MFS A
A70 GUNS MG M 100010001
A70 GUNS MG MGM FAAAAAAAAA
A70 RECOIL ADAPTER 74AAA MGA MG 1
A70 DRUM DRIVE ASSY 74AAG MGAA MG 0
A70 WEB STRAP CHUTE RETAINER 74ACH MGAB MG 0
A70 EXIT COVER 74ADA MGAC MG 0
A70 ENTRANCE COVER 74ADB MGAD MG 0
A70 EXIT SCOOP DISC ASSY 74ADC MGAE MG 0
A70 ENTRANCE SCOOP DISC ASSY 74ADD MGAF MG 0
A70 INNER DRUM 74ADE MGAG MG 0
A70 OUTER DRUM 74ADF MGAH MG 0
A70 TRANSFER UNIT ASSY 74AEA MGAJ MG 0
A70 LOADER ASSY 74AEB MGAK MG 0
A70 FILTER 74AFA MGAL MG 0
A70 DUEL RATE FLOW REG VALVE 74AFB MGAM MG 0
A70 HYD GUN DRIVE MOTOR 74AFC MGAN MG 0
A70 LAST ROUND BYPASS SWITCH 74AJG MGAO MG 0
A70 DRIVE UNIT ASSY 74AHA MGAP MG 0
A70 FLEXIBLE SHAFT 74AHH MGAQ MG 0
A70 GUN DRIVE ASSY 74AHC MGAR MG 0
A70 LAST ROUND SWITCH 74AJA MGAS MG 0
A70 GUN SPEED SENSOR 74AJB MGAT MG 1
A70 ASCU 74FAO MGAV MG A
A70 GUN HOUSING 74AAB MGB MG 1
A70 ROTOR ASSY 74AAC MGC MG 1
A70 BREACH BOLT ASSY 74AAD MGD MG 1
A70 RETAINER ASSY 74AAE MGE MG 0
A70 GUN FIRE CONTROL MGF ECD FAAAAAAAAA
A70 GUN FIRE CONTROL MGF MG 000000000
A70 FIRING CONTACT ASSY 74AAH MGFA MGF A
A70 GUN CONTROL BOX ASSY 74AJJ MGFB MGF A

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1234567890123456789012345678901234567890123456789012345678901234567890
A70 FIRE COMMAND MGFC MGF AAAAAAAAAA
A70 FIRE COMMAND MGFC MK FAAAAAAAAA
A70 CIRCUIT CARD ASSY A-1 74AKA MGFC MGF A
A70 DUMMY 74AKL MGFCB MGF C
A70 CIRCUIT CARD ASSY A-1 74AKB MGFC MGF A
A70 TRANSFORMER RECTIFIER 74AKC MGFE MGF A
A70 HOUSING 74AKE MGFE MGF 1
A70 CHASSIS COVER 74AKG MGFG MGF 0
A70 READY SELECT 74AKH MGFS MGF AAAAAAAAAA
A70 GUN SELECT SWITCH 74AKA MGFS MGF A
A70 END PLATE 74AKB MG M 0
A70 CLEARING SOLENOID 74AKC MG M 0
A70 GUIDE BAR 74AKJ MG M 1
A70 LUBRICATOR 74AKK MG M 0
A70 BARRELS 74AKA MGL MG 1
A70 MAINTENANCE SKED INFO 74AKB MGM DR AAAAAAAAAA
A70 MUZZLE CLAMP 74AKB MGMA MG 1
A70 CENTER BARREL CLAMP 74AKC MGN MG 0
A70 STABILIZER RING 74AKD MGQ MG 1
A70 FRONT MOUNT YOKE ASSY 74AKE MGP MG 2
A70 GUNS SAFETY CONTROL 74AKF MGS MG 110000011
A70 ARM STA CONT UNIT 74AKG MGSA MG A
A70 INTERLOCK CONTROL 74AKH MGSC MGS 111111111
A70 DEARMING CONTROL 74AKI MGSM MGS 111111111
A70 MASTER ARM SWITCH 74AKJ MGSM MGS 111111111
A70 SAFE SELECT 74AKK MGSS MGS A
A70 GUN SWITCH (SAFE) 74AKL MGSSA MGSS A
A70 REAR MOUNT 74AKM MGT MG 2
A70 EXIT UNIT 74ACA MGU MG 0
A70 ENTRANCE UNIT 74ACB MGU MG 0
A70 FEED FLEXIBLE CHUTE 74ACC MGW MG 0
A70 RETURN CHUTE 74ACD MGA MG 0
A70 BYPASS CHUTE 74ACE MGY MG 0
A70 CONVEYER ASSY 74ACF MGZ MG 0
A70 REGULATOR AMPL 74FAA MPPHA MEP A
A70 OFFLECTOR 74FAB MPPHB MEP 2
A70 TRIGGER GEN 74FAC MPPHC MEP A
A70 GATE LOGIC 74FAD MPPHD MEP 5
A70 E LOGIC 74FAE MPPHE MEP 5
A70 MID LOGIC 74FAF MPPHF MEP 5
A70 I LOGIC 74FAG MPPHG MEP 5
A70 TEST PULSE GEN 74FAH MPPHH MEP 1
A70 A/S IMPROVED CORR 74FAJ MPPHJ MEP 1
A70 GCI LOGIC 74FAK MPPHK MEP 1
A70 AFT ANTENNA 74FAL MPPHL MEP 5
A70 PULSE DELAY OSCILATOR 74FCA MPPHM MEP 5
A70 VIDEO AMPLIFIER 74FCB MPPHN MEP 5
A70 QUADRUPLIXER DETECTOR 74FCF MPPHP MEP 2
A70 VIDEO SWITCHING BOARD 74FCG MPPHQ MEP 1
A70 CIRCUIT CARD ASSY 74FDA MPPHR MEP 5

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76F08	MPPHS	MFP	5
A70 CIRCUIT CARD ASSY	MP	M	000000000
A70 RECON INFORMATION	MPA	MA	A
A70 STRIKE CAMERA KB 18A	MRB	MB	2
A70 STRIKE CAMERA MOUNT	MRC	MC	1
A70 STRIKE CAMERA BOX	MRD	MD	1
A70 STRIKE CAMERA WINDOW	MRE	ME	A
A70 STRIKE CAMERA CONTROL	MRF	MF	A
A70 HUD CAMERA SYSTEM	MS	MRA	AAAAAAAAAA
A70 ARM MASTER CONTROL	MS	MGE	AAAAAAAAAA
A70 ARM STA CONT UNIT	MSA	MS	A
A70 INTERLOCK BYPASS	MSB	MS	AAAAAAAAAA
A70 ARM SAFETY DISABLE SWITCH	MSBA	MSB	A
A70 GEAR INTERLOCK CONTROL	MSD	MSBJ	111111111
A70 GEAR INTERLOCK CONTROL	MSD	MS	AAAAAAAAAA
A70 ARM SELECT MASTER	MSM	MS	AAAAAAAAAA
A70 MASTER ARM SWITCH	MSMA	MSM	A
A70 ROUND COUNTER	MSMAA	MSM	A
A70 SECONDARY AC BUS	UAA	CRAA	SAAAAA
A70 SECONDARY AC BUS	UAA	CRABZX	S000121100
A70 SECONDARY AC BUS	UAA	CRAD	SAAAAA
A70 SECONDARY AC BUS	UAA	CRAX	S111111111
A70 SECONDARY AC BUS	UAA	CRBF	S0000A0010
A70 SECONDARY AC BUS	UAA	CRAX	S111111111
A70 SECONDARY AC BUS	UAA	CRBE	FAAAAA
A70 SECONDARY AC BUS	UAA	CRBF	FAAAAA
A70 SECONDARY AC BUS	UAA	CRBL	FAAAAA
A70 SECONDARY AC BUS	UAA	CRBJ	FAAAAA
A70 SECONDARY AC BUS	UAA	CACJ	AAAAA
A70 SECONDARY AC BUS	UAA	EBN	AAAAA
A70 SECONDARY AC BUS	UAA	EEG	AAAAA
A70 SECONDARY AC BUS	UAA	EEJ	AAAAA
A70 SECONDARY AC BUS	UAA	EHA	AAAAA
A70 SECONDARY AC BUS	UAA	EHC	AAAAA
A70 SECONDARY AC BUS	UAA	EDEC	AAAAA
A70 SECONDARY AC BUS	UAA	EEJK	AAAAA
A70 ELECTRIC POWER	UAA	GRD	AAAAA
A70 SECONDARY AC BUS	UAA	MASC	AAAAA
A70 ELECTRIC POWER	UAA	MED	AAAAA
A70 SECONDARY AC BUS	UAA	UDN	FAAAAA
A70 SECONDARY AC BUS	UAA	UDP	FAAAAA
A70 ELECTRIC POWER	UAB	BACGA	AAAAA
A70 ELECTRIC POWER	UAB	BRAC	AAAAA
A70 ELECTRIC POWER PRIMARY AC	UAB	BRFG	AAAAA
A70 ELECTRIC POWER PRIMARY AC	UAB	BRFK	AAAAA
A70 ELECTRIC POWER PRIMARY AC	UAB	BRER	AAAAA
A70 PRIMARY AC BUS	UAB	CRABZX	S222222222
A70 PRIMARY AC BUS	UAB	CRACX	S111111111
A70 PRIMARY AC BUS	UAB	CRAF	S0000A0000
A70 PRIMARY AC BUS	UAB	CRBD	FAAAAA

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0000000001111111112222222222333333333344444444445555555555666666666677777777773
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70PRIMARY AC BUS UAH CRM FAAAAAAAAA
A70PRIMARY AC BUS UAH CRN FAAAAAAAAA
A70PRIMARY AC BUS UAH CCA FAAAAAAAAA
A70 PRIMARY AC BUS UAH DABG FAAAAAAAAA
A70 PRIMARY AC BUS UAH DAEF FAAAAAAAAA
A70AC POWER PRIMARY UAH FDE 22222222
A70PRIMARY AC BUS UAH FEK FAAAAAAAAA
A70PRIMARY AC POWER UAH EHN FAAAAAAAAA
A70 UAH LACZ FAAAAAAAAA
A70PRIMARY AC BUS UAH MASC FAAAAAAAAA
A70 PRIMARY AC BUS UAH UCD FAAAAAAAAA
A70 RELAY,PRIMARY AC 42BAH UAH A FAAAAAAAAA
A70 ELECTRIC POWER UAH BRAA FAAAAAAAAA
A70 ELECTRIC POWER UAH BCCA FAAAAAAAAA
A70 ELECTRIC POWER UAH DZER FAAAAAAAAA
A70EMERGENCY INSTRUMENT BUS UAH FADA FAAAAAAAAA
A70EMERG INSTRUMENT BUS UAH FBD 22222222
A70EMERG INST BUS UAH FEQ FAAAAAAAAA
A70EMERGENCY INST BUS UAH UHAH FAAAAAAAAA
A70EMERGENCY INST BUS UAH UHBH FAAAAAAAAA
A70EMERGENCY INST BUS UAH UHCH FAAAAAAAAA
A70 TRANSFORMER, INSTRUMENT 42FAK UAH A FAAAAAAAAA
A70 RELAY,BATTERY BUS 42BCG UAH A FAAAAAAAAA
A70 ELECTRIC POWER UAD RACJA FAAAAAAAAA
A70PRIMARY INSTRUMENT BUS UAD CHAA SAAAAAAAAA
A70PRIMARY INSTRUMENT BUS UAD CBABZX S888888888
A70PRIMARY INSTRUMENT BUS UAD CBAEX S888888888
A70PRIMARY INSTRUMENT BUS UAD CBAF S0001111A0
A70PRIMARY INSTRUMENT BUS UAD CBAX S22222222
A70PRIMARY INST BUS UAD CBBC FAAAAAAAAA
A70PRIMARY INST BUS UAD CBBG FAAAAAAAAA
A70PRIMARY INSTRUMENT BUS UAD CBM FAAAAAAAAA
A70PRIMARY INSTRUMENT BUS UAD CRN FAAAAAAAAA
A70 INSTRUMENT BUS UAD DABB FAAAAAAAAA
A70 ELECTRIC POWER UAD GBD FAAAAAAAAA
A70 TRANSFORMER, INSTRUMENT 42FAK UAD A FAAAAAAAAA
A70 RELAY (K5) 9942A UAD A FAAAAAAAAA
A70EMERGENCY AC BUS UAF CBAA S22222222
A70EMERGENCY AC BUS UAF CBABZX S222343322
A70EMERGENCY AC BUS UAF CBAD S333333333
A70EMERGENCY AC BUS UAF CBAEX S22222222
A70EMERGENCY AC BUS UAF CBAF S0001111A0
A70EMERGENCY AC BUS UAF CBAX SAAAAAAAAA
A70EMERGENCY AC BUS UAF CBBC FAAAAAAAAA
A70EMERGENCY AC BUS UAF CBKB FAAAAAAAAA
A70EMERGENCY AC BUS UAF FHF FAAAAAAAAA
A70EMERG AC BUS UAF FCDA FAAAAAAAAA
A70EMERG AC BUS UAF FDGB FAAAAAAAAA
A70EMERG AC BUS UAF FFH FAAAAAAAAA
A70INVERTER BUS UAF CBABZX S000121100

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FLIGHT SAFETY PREDICTION TECHNIQUE

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FLIGHT SAFETY PREDICTION TECHNIQUE

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0000000011111111222222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70AC POWER GENERATION UAP UAX AAAAAAAA
A70 GENERATOR 91AFA UAPA UAP A
A70 ELAPSED TIME INDICATOR 91ARF UAPB DB 0
A70 TEST RECPTLE 91APC UAPD UAP 0
A70VOLT/FREQ/LOAD CONTROL UAQ UAY AAAAAAAA
A70 TRANSFORMER,CURRENT 6FA 42RAD UAGA UAG A
A70 PANEL,GENERATOR CONTROL 42RAF UAQB UAG 5
A70SOURCE SELECTION UAR UAY AAAAAAAA
A70SOURCE SELECTION UAR UAZ FAAAAAAA
A70 PANEL,PILOT GEN CONTROL 42FAN UARA UAR 0
A70 SWITCH,GEN 42FAC UARB UAR A
A70AC POWER GENERATION UAT UAY AAAAAAAA
A70GENERATOR DRIVE UATA UAT AAAAAAAA
A70 TRANSMISSION,CSD 42AAA UATAA UATA A
A70 COUPLING 42AAD UATAB UATA 5
A70 STARTR & CSD DRIVE SHAFT 231SX N UATAC UATA A
A70 STARTR PAD ADAPTER 231SG N UATAD UATA 3
A70CSD OIL COOLING UATB UATA 888888888
A70 FILTER 42AAB UATRA UATR 1
A70 COOLER 42AAC UATRB UATR A
A70 MASTER GENERATOR 42H7A UATC UAT A
A70 HARNESS,ELECTRICAL 42CAR UATK UAT 0
A70POWER MONITOR UAV UAZ AAAAAAAA
A70EXTERNAL AC POWER DIST UAVA UAZ AAAAAAAA
A70 RECEPTACLE,AC POWER 42DAA UAVAA UAVA 1
A70 MONITOR,EXT PWR 42DAB UAVB UAV A
A70 SWITCH,REMOTE RESET 42DAC UAVC UAV 0
A70 RELAX, EXT PWR ARM 42DAD UAVD UAV A
A70INVERTER POWER UAW UAF K UAM AAAAAAAA
A70 INVERTER 42ECJ UAWA UAW A
A70 RELSY (K305) 9942B UAWB UAW A
A70EMERGENCY AC POWER UAX UAH K UAM AAAAAAAA
A70EMERGENCY AC POWER UAX UAJ K UAM AAAAAAAA
A70INTERNAL AC POWER UAY UAM AAAAAAAA
A70INTERNAL AC POWER UAY UAMA FAAAAAAA
A70 PANEL,TEST AC 42RAB UAYA UAY 0
A70EXTERNAL AC POWER UAZ UAM 000000000
A70 ALTITUDE COMPUTATION UCA UCN AAAAAAAA
A70 ALTITUDE COMPUTATION UCA UCP AAAAAAAA
A70 ALTITUDE COMPUTATION UCA UCQ AAAAAAAA
A70 ALTITUDE COMPUTATION UCA UCR AAAAAAAA
A70 ALTITUDE COMPUTATION UCA UCS AAAAAAAA
A70 ALTITUDE COMPUTATION UCA UCT AAAAAAAA
A70 ALTITUDE COMPUTATION UCA UCX SAAAAAAA
A70 MACH/ALT MOTOR 73CAQ UCAA UCA A
A70 ALT. SIGNAL GENERATION UCB UCA AAAAAAAA
A70 MACH/ALT SERVO AMPLIFIER 73CAG UCBA UCB A
A70 STATIC PRESSURE SENSING UCC UCB AAAAAAAA
A70 STATIC PRESSURE SENSOR 73CAA UCCA UCC A
A70 CADC ELECTRICAL POWER UCD UCN AAAAAAAA

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PGG195.J1P1 DATE = 10/06/75

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000000001111111112222222222333333333344444444455555555566666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890
A70 CADC ELECTRICAL POWER          UCD          UCP          AAAAAAAAAA
A70 CADC ELECTRICAL POWER          UCD          UCJ          AAAAAAAAAA
A70 CADC ELECTRICAL POWER          UCD          UCR          AAAAAAAAAA
A70 CADC ELECTRICAL POWER          UCD          UCS          AAAAAAAAAA
A70 CADC ELECTRICAL POWER          UCD          UCT          AAAAAAAAAA
A70 CADC ELECTRICAL POWER          UCD          UCU          AAAAAAAAAA
A70 CADC ELECTRICAL POWER          UCD          UCW          AAAAAAAAAA
A70 PS 1 POWER SUPPLY              73CAD      UCDA          A
A70 TRANSFORMER                    73CAX      UCDB          A
A70 MOUNTING RACK                  73CDD      UCDC          0
A70 ELAPSED TIME INDICATOR        73CAY      UCDX          1
A70 SELF TEST                      UCE          DZFC          FAAAAAAAAA
A70 SELF TEST                      UCE          UCB          AAAAAAAAAA
A70 SELF TEST                      UCE          UCG          FAAAAAAAAA
A70 SELF TEST                      UCE          UCU          SAAAAAAAAA
A70 SELF TEST                      UCE          UCW          SAAAAAAAAA
A70 MACH/ALT TRIGGER AMPLIF.      73CAF      UCFA          A
A70 TRUE AIRSPEED COMPUTATION      UCF          UCU          AAAAAAAAAA
A70 TRUE AIRSPEED COMPUTATION      UCF          UCW          AAAAAAAAAA
A70 TRUE AIR SPEED COMPUTATION      UCF          UCX          SAAAAAAAAA
A70 TAS SERVO AMPL.                73CAC      UCFA          A
A70 TAS MOTOR                      73CAM      UCFB          A
A70 TAS MODULE                     73CAH      UCFC          A
A70 MACH COMPUTATION                UCG          UCF          AAAAAAAAAA
A70 MACH COMPUTATION                UCG          UCS          AAAAAAAAAA
A70 MACH COMPUTATION                UCG          UCT          AAAAAAAAAA
A70 GEAR ASSY. HOUSING              73CAN      UCGA          A
A70 TEMPERATURE COMPENSATION        UCH          UCF          AAAAAAAAAA
A70 NETWORK ASSEMBLY                73CAW      UCHA          A
A70 SELF TEST                      UCJ          DZFC          FAAAAAAAAA
A70 SELF TEST                      UCJ          UCF          AAAAAAAAAA
A70 TAS TRIGGER AMPLIFIER          73CAF      UCJA          A
A70 SIGNAL GENERATION               UCK          UCG          AAAAAAAAAA
A70 MACH/ALT SERVO AMPL             73CAG      UCKA          A
A70 PRESSURE RATIO SENSING           UCL          UCK          AAAAAAAAAA
A70 PRESSURE RATIO SENSOR           73CAP      UCLA          A
A70 PLENUM CHAMBER                  51AFF      UCLB          1
A70 TOTAL TEMPERATURE SENSING        UCM          UCH          AAAAAAAAAA
A70 TOTAL TEMP. PROBE               73CHO      UCMA          A
A70 ALT. TO ALT.IND.AND AIMS         UCN          DACB          AAAAAAAAAA
A70 SYNCHRO ALTITUDE INDICTR        73CAU      UCNA          A
A70 ALTITUDE ENCODE                 UCP          CCAF          AAAAAAAAAA
A70 ENCODER ALTITUDE REPORTER        73CAT      UCPA          A
A70 ADC ALTITUDE                    UCQ          CBW          111111111
A70 ALT. POTENTIOMETER STACK        73CAS      UCQA          A
A70 ADC ALTITUDE                    UCR          CBADH          AAAAAAAAAA
A70 ADC ALTITUDE                    UCR          CBADE          AAAAAAAAAA
A70 ALT. POTENTIOMETER STACK        73CAS      UCR          A
A70 ALTITUDE SIGNAL (CADC)          UCS          FDFU          AAAAAAAAAA

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 MACH POTENTIOMETER STACK 73CAK UCSA UCS A
A70 ALT.HOLD SYNCHRO 73CAV UCSB UCS A
A70 AIR DATA COMPUTER IND AIRSPD UCT EDZK AAAAAAAAAA
A70 MACH/ALT. XDUCE 73CAP UCTA UCT A
A70 ADC TRUE AIRSPEED UCU CBADF AAAAAAAAAA
A70 ADC TRUE AIRSPEED UCU CBAFDE AAAAAAAAAA
A70 TAS POTENTIOMETER STACK 73CAJ UCUA UCU A
A70 TRUE AIRSPEED OUTPUT UCU DABB AAAAAAAAAA
A70 TAS SYNCHRO NO. 1 73CAK UCWA UCW O
A70 TAS SYNCHRO NO. 2 73CAL UCWR UCW A
A70 FAILURE OF AIR DATA COMP UCX UCX FAAAAAAAAA
A70 ELECTRIC POWER SECONDARY DC UDA RFD AAAAAAAAAA
A70 ELECTRIC POWER SECONDARY DC UDA BFXA 5555555555
A70 SECONDARY DC BUS UDA CAA FAAAAAAAAA
A70 SECONDARY DC BUS UDA CAC AAAAAAAAAA
A70 SECONDARY DC BUS UDA CRAA SAAAAAAAAA
A70 SECONDARY DC BUS UDA CHARZX S1111111111
A70 SECONDARY DC BUS UDA CHAD SAAAAAAAAA
A70 SECONDARY DC BUS UDA CBAFX S1111111111
A70 SECONDARY DC BUS UDA CBAF SOGGA2140
A70 SECONDARY DC BUS UDA CBRE FAAAAAAAAA
A70 SECONDARY DC BUS UDA CBRE FAAAAAAAAA
A70 SECONDARY DC BUS UDA CBL FAAAAAAAAA
A70 SECONDARY DC BUS UDA CBM FAAAAAAAAA
A70 SECONDARY DC BUS UDA CBP FAAAAAAAAA
A70 SECONDARY DC BUS UDA CBQ FAAAAAAAAA
A70 SECONDARY DC BUS UDA CCAC AAAAAAAAAA
A70 SECONDARY DC BUS UDA CCR AAAAAAAAAA
A70 SECONDARY DC BUS UDA DACG A3AAAAAAAA
A70 SECONDARY DC BUS UDA DADR AAAAAAAAAA
A70 SECONDARY DC BUS UDA DP 1111111111
A70 ELECTRIC POWER UDA DZFC AAAAAAAAAA
A70 ELECTRIC POWER UDA DZFDX AAAAAAAAAA
A70 ELECTRIC POWER UDA DZFH AAAAAAAAAA
A70 SECONDARY AC BUS UDA EPN AAAAAAAAAA
A70 SECONDARY DC BUS UDA EED AAAAAAAAAA
A70 SECONDARY DC BUS UDA EHD AAAAAAAAAA
A70 ELECTRIC POWER SEC DC BUS UDA GAAR AAAAAAAAAA
A70 ELECTRIC POWER SEC DC BUS UDA GAHC AAAAAAAAAA
A70 ELECTRIC POWER SEC DC BUS UDA GAK FAAAAAAAAA
A70 ELECTRIC POWER SEC DC BUS UDA GBC AAAAAAAAAA
A70 DC PAR SECONDARY UDA GC AAAAAAAAAA
A70 SECONDARY DC BUS UDA MASC AAAAAAAAAA
A70 ELECTRIC POWER UDA MEP AAAAAAAAAA
A70 SECONDARY DC BUS UDA UDP FAAAAAAAAA
A70 SECONDARY DC BUS UDA UHCM AAAAAAAAAA
A70 SECONDARY DC BUS UDA UMCT AAAAAAAAAA
A70 ELECTRIC POWER UDR BACJR AAAAAAAAAA
A70 ELECTRIC POWER BATTERY BUS UDB BFCRW AAAAAAAAAA
A70 ELECTRIC POWER BATTERY BUS UDR BFEA AAAAAAAAAA

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D ELECTRIC POWER BATTERY BUS          UDB          BFXA          AAAAAAAAAA
A7DBATTERY BUS                          UDB          CAB          FAAAAAAAAA
A7DBATTERY BUS                          UDB          CAD          AAAAAAAAAA
A7D ELECTRIC POWER                      UDB          DYZ          AAAAAAAAAA
A7D ELECTRIC POWER                      UDB          DZCCG        AAAAAAAAAA
A7DBATTERY BUS                          UDB          EFH          AAAAAAAAAA
A7DBATTERY BUS                          UDB          MASC         AAAAAAAAAA
A7DBATTERY BUS                          UDB          UAW          AAAAAAAAAA
A7D ELECTRIC POWER                      UDC          RACE         AAAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC           UDC          BFRF         AAAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC           UDC          BFRH         AAAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC           UDC          BFRK         AAAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC           UDC          BFRM         AAAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC           UDC          BFD          AAAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC           UDC          BFE          AAAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC           UDC          BFXB         AAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          CBABZX       S111111111
A7DPRIMARY DC BUS                       UDC          CBAFX       S111111111
A7DPRIMARY DC BUS                       UDC          CBAF        S0001A21A0
A7DPRIMARY DC BUS                       UDC          CHAX       S111111111
A7DPRIMARY DC BUS                       UDC          CBBID      FAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          CBHF       FAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          CBM        FAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          CBN        FAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          CCA        AAAAAAAAAA
A7D ELECTRIC POWER                      UDC          DZEA       AAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          ECB        AAAAAAAAAA
A7DDC POWER PRIMARY                    UDC          EDE        111111111
A7DPRIMARY DC BUS                       UDC          EEF        AAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          EFF        AAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          FACA       AAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          FRC        AAAAAAAAAA
A7DPRIMARY DC                           UDC          FBD        222222222
A7D                                       UDC          LACE       AAAAAAAAAA
A7DPRIMARY DC BUS                       UDC          MASC       AAAAAAAAAA
A7D ELECTRIC POWER                      UDC          MEP        AAAAAAAAAA
A7DDC ENGINE START DIST                UDC          BAFY       AAAAAAAAAA
A7D ELECTRIC POWER                      UDE          BACD       AAAAAAAAAA
A7DEMERG DC BUS                         UDE          BACGB      AAAAAAAAAA
A7D ELECTRIC POWER                      UDE          BACJB      222222222
A7D ELECTRIC POWER EMER DC              UDE          BFA        AAAAAAAAAA
A7D ELECTRIC POWER EMER DC              UDE          BFXA       555555555
A7DEMERGENCY DC BUS                     UDE          CBABZX     S000121100
A7DEMERGENCY DC BUS                     UDE          CRAD       S333333333
A7DEMERGENCY DC BUS                     UDE          CHAX       S999999999
A7DEMERGENCY DC BUS                     UDE          CRKB       FAAAAAAAAA
A7DEMERGENCY DC BUS                     UDE          DACA       AAAAAAAAAA
A7DEMERGENCY DC BUS                     UDE          DADA       AAAAAAAAAA
A7D ELECTRIC POWER                      UDE          DZEA       AAAAAAAAAA
A7DEMERGENCY DC BUS                     UDE          EGA        AAAAAAAAAA

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FLIGHT SAFETY PREDICTION TECHNIQUE

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FLIGHT SAFETY PREDICTION TECHNIQUE

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000000000011111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A70 BATTERY DC SUPPLY UDZ UDL AAAAAAAAAA
A70 BATTERY 42BCA UDZA UDZ A
A70 COVER 42BCB UDZB UDZ 0
A70 MOUNT 42BCE UDZC UDZ 1
A70 PC1 HYD UHA FDC 111111111
A70 PC 1 HYD UHA FEJC AAAAAAAAAA
A70 PC 1 HYD UHA FEZ 111111111
A70 DAY/TEM PRESSURE UHAA UHA AAAAAAAAAA
A70 DAY/TEM PRESSURE UHAA UHAC FAAAAAAAAA
A70 DAY/TEM PRESSURE UHAA UHAD FAAAAAAAAA
A70 DAY/TEM PRESSURE UHAA UHAH FAAAAAAAAA
A70 FILTER, MAIN PRESSURE 45AAE UHAAA UHAA 0
A70 VALVE, SYS PRESS RELIEF 45AAF UHAAB UHAA 5
A70 INTERNAL PRESSURE UHAB UHAA AAAAAAAAAA
A70 PUMP, PC1 45AAD UHABA UHAB A
A70 DISCONNECT, PRESSURE 45AAC UHABR UHAB 2
A70 DISCONNECT, RETURN 45AAC UHABC UHAB 5
A70 EXTENSION UNIT, PRESSURE 45AAM UHABD UHAB 5
A70 EXTENSION UNIT, RETURN 45AAN UHABE UHAB 5
A70 HOSE, PRESSURE 9945A UHABF UHAB 5
A70 HOSE, RETURN 9945B UHABG UHAB 5
A70 HYD. PUMP DR. GEAR & BRNG 231SW N UHAPJ UHAB A
A70 FLUID SUPPLY UHAC UHAB AAAAAAAAAA
A70 VALVE, RESERVOIR RELIEF 45AAA UHACA UHAC 2
A70 RESERVOIR 45AAB UHACB UHAC 5
A70 VALVE, SOLENOID SHUTOFF 45AAX UHACC UHAC 0
A70 SURGE DAMPING UHAD UHAZ 111111111
A70 ACCUMULATOR 45AAG UHADA UHAD A
A70 PNEUMATIC PRECHARGE UHAE UHAD AAAAAAAAAA
A70 VALVE PACKAGE 45DAA UHAEA UHAF 1
A70 PNEUMATIC PRECHARGE GAUGE 45DAB UHAEB DB 1
A70 VALVE, SYSTEM CHARGE 45DAD UHAEC UHAF A
A70 EXTERNAL PRESSURE UHAF UHAA 000000000
A70 DISCONNECT, PRESSURE 45AAH UHAF A UHAF 5
A70 DISCONNECT, RETURN 45AAJ UHAFB UHAF 5
A70 PUMP COOLING UHAG UHAB 888888888
A70 FILTER, BYPASS 45AAK UHAGA UHAG 0
A70 DISCONNECT, BYPASS 45AAL UHAGB UHAC 2
A70 EXTENSION UNIT, BYPASS 45AAP UHAGC UHAC 2
A70 HOSE, BYPASS 9945C UHAGD UHAC 2
A70 PRESSURE SENSING DC-1 UHAH UZFEZ AAAAAAAAAA
A70 TRANSMITTER, P/PRESSURE 45ABA UHAHA UHAH A
A70 SURGE DAMPING ATTENUATION UHAZ UHA 111111111
A70 HYDRAULIC POWER UHB BFED AAAAAAAAAA
A70 HYD PRESS. (PC2) UHB FCD AAAAAAAAAA
A70 HYDRAULIC PC2 UHB FRR AAAAAAAAAA
A70 PC 2 HYD UHB FCB UHC 111111111
A70 PC2 HYD UHB FDC 111111111
A70 PC2 HYD UHB FDED AAAAAAAAAA
A70 PC 2 HYD UHB FEZ 111111111

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0000000001111111112222222222222233333333444444444455555555555566666666667777777777
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D PC 2 DIST UHB GAFF AAAAAAAAAA
A7D PC 2 DIST UHB GADA AAAAAAAAAA
A7DPC 2 HYD UHB MG 00000000
A7DPC2 HYDRAULIC DISTRIBUTION UHB UHCM UHCP 11111111
A7DPC2 HYDRAULIC DISTRIBUTION UHB UHO AAAAAAAAAA
A7DSYSTEM PRESSURE UHB UHB AAAAAAAAAA
A7DSYSTEM PRESSURE UHB UHAC FAAAAAAAAA
A7DSYSTEM PRESSURE UHB UHBD FAAAAAAAAA
A7DSYSTEM PRESSURE UHB UHHH FAAAAAAAAA
A7D FILTER,MAIN PRESSURE 45BAF UHBAA UHB 0
A7D VALVE,SYS PRESS RELIEF 45BAG UHBAB UHB 5
A7D SWIVEL,PRESSURE 45BAU UHBAC UHB 5
A7DINTERNAL PRESSURE UHB UHBA AAAAAAAAAA
A7D DISCONNECT,PRESSURE 45BAC UHBBA UHB 2
A7D DISCONNECT,RETURN 45BAC UHBBC UHB 2
A7D PUMP,PC2 45BAD UHBBC UHB 2
A7D EXTENSION UNIT,PRESSURE 45BAR UHBBD UHB 2
A7D EXTENSION UNIT,RETURN 45BAN UHBBE UHB 2
A7D HOSE,PRESSURE 9945A UHBBF UHB 2
A7D HOSE,RETURN 9945B UHBGG UHB 2
A7D SWIVEL,RETURN 45BAV UHBBAH UHB 2
A7D HYD.PUMP DR.GEAR & BRND 231SW N UHBBJ UHB 2
A7DFLUID SUPPLY UHB UHB 1
A7D VALVE,RESERVOIR RELIEF 45BAA UHBBA UHB 2
A7D RESERVOIR 45BAF UHBBC UHB 2
A7DSURGE DAMPING UHB UHB 1
A7D ACCUMULATOR 45BAH UHBDA UHB 1
A7D SURGE DAMPING ATTENUATION UHB UHB 1
A7DPNEUMATIC PRECHARGE UHB UHB 1
A7D VALVE PACKAGE 45BAF UHBBA UHB 1
A7D PNEUMATIC PRECHARGE GAUGE 45BAB UHBBC UHB 1
A7D VALVE,SYSTEM CHARGE 45BAD UHBBC UHB 1
A7DEXTERNAL PRESSURE UHB UHB 1
A7D DISCONNECT,PRESSURE 45BAJ UHBBA UHB 5
A7D DISCONNECT,RETURN 45BAK UHBBC UHB 5
A7DPUMP/FLUID COOLING UHB UHB 88888888
A7D DISCONNECT,BYPASS 45BAE UHBGA UHB 2
A7D FILTER,BYPASS 45BAM UHBGB UHB 2
A7D EXTENSION UNIT,BYPASS 45BAS UHBGC UHB 2
A7D HOSE,BYPASS 9945C UHBGD UHB 2
A7DPRESSURE SENSING DC-2 UHBH OZFEZ AAAAAAAAAA
A7D PRESSURE XMITTER 45BBA UHBHB UHB 1
A7DSYSTEM ISOLATION CONTROL UHB UHB 1
A7D VALVE,ISOLATION 45BAL UHBJA UHB 1
A7DMANUAL PRESSURIZATION UHB UHB 00000000
A7D HAND PUMP 45BAQ UHBKA UHB 1
A7DEMERGENCY ACCUMULATOR CHARGE UHB OZFLY AAAAAAAAAA
A7D HYD PRESS UHB GAL 00000000
A7D EMERG. ACCUM CHARGING UHB GAL AAAAAAAAAA
A7DEMERG ACCUM CHARGING UHB LACC AAAAAAAAAA

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00000000111111111222222222333333333444444444555555555666666666777777777
1234567890123456789012345678901234567890123456789012345678901234567890
A70EMERGENCY ACCUMULATOR CHARGE UHBL UHCP AAAAAAAAAA
A70 VALVE, MANUAL SHUTOFF 45DAG UHBLA UHCL A
A70VALVE, THERMAL RELIEF 13CAF UHMLN UHCL 9
A70VALVE, EMERGENCY PRESSURE DUMP 13CAF UHMLP UHCL 6
A70VALVE, PRECHARGE SHUTOFF 13CAF UHMLR UHCL 9
A70PC 3 HYD PRESS DIST UHC RACL AAAAAAAAAA
A70PC 3 HYD UHC FCH UHR 11111111
A70PC3 HYDRAULICS DIST UHC FCH FAAAAAAAAA
A70PC3 HYD UHC FCH 11111111
A70PC 3 HYD UHC FFZ 11111111
A70SYSTEM PRESSURE UHCA UHC AAAAAAAAAA
A70SYSTEM PRESSURE UHCA UHCC FAAAAAAAAA
A70SYSTEM PRESSURE UHCA UHCD FAAAAAAAAA
A70SYSTEM PRESSURE UHCA UHCH FAAAAAAAAA
A70 FILTER MAIN PRESSURE 45CAF UHCAA UHCA 0
A70 VALVE, SYSTEM PRESS RELIEF 45CAG UHCAH UHCA 5
A70 SWIVEL PRESSURE 45CAS UHCAH UHC 5
A70 SWIVEL RETURN 45CAT UHCAH UHC 5
A70INTERNAL PRESSURE UHCB UHCA UHCH 11111111
A70 DISCONNECT, PRESSURE 45CAD UHCHA UHCB 2
A70 PUMP, PC3 45CAE UHCBH UHCB A
A70 EXTENSION UNIT, PRESSURE 45CAN UHCBH UHCB 2
A70 EXTENSION UNIT, RETURN 45CAP UHCBH UHCB 2
A70 DISCONNECT, RETURN 45CAU UHCBH UHCB 2
A70 HOSE, PRESSURE 9945A UHCBH UHCB 2
A70 HOSE, RETURN 9945B UHCBH UHCB 2
A70 HYD. PUMP DR. GEAR & BRNG 231SW N UHCHJ UHCB A
A70FLUID SUPPLY UHCC UHCA SAAAAAAAAA
A70FLUID SUPPLY UHCC UHCB FAAAAAAAAA
A70FLUID SUPPLY UHCC UHCH FAAAAAAAAA
A70 RESERVOIR 45CAB UHCCA UHCC 5
A70 RESB. CONTROL INDICATOR 45CAC UHCCB DB 1
A70SURGE DAMPING UHCD UHCDZ 11111111
A70 ACCUMULATOR 45CAH UHCDH UHCD A
A70SURGE DAMPING ATTENUATION UHCDZ UHC 11111111
A70PNEUMATIC PRECHARGE UHCE UHCD AAAAAAAAAA
A70 VALVE PACKAGE 45CAA UHCEH UHCE 1
A70 PNEUMATIC PRECHARGE GAUGE 45DAB UHCEB DB 1
A70 VALVE SYSTEM CHARGE 45DAD UHCEC UHCE A
A70EXTERNAL PRESSURE UHCF UHCA 00000000
A70 DISCONNECT, PRESSURE 45CAJ UHCEH UHCF 5
A70 DISCONNECT, RETURN 45CAK UHCFB UHCF 5
A70PUMP COOLING UHCG UHCB 38888888
A70 FILTER, BYPASS 45CAL UHCGH UHCG 0
A70 DISCONNECT, BYPASS 45CAM UHCGH UHCC 5
A70 EXTENSION UNIT, BYPASS 45CAQ UHCGC UHCC 5
A70 HOSE, BYPASS 9945C UHCGD UHCC 5
A70PRESSURE SENSING PC-3 UHCH DZFEZ AAAAAAAAAA
A70 TRANSMITTER PRESSURE 45CEA UHCHB UHCH A
A70EMERGENCY PRESSURE UHCH UHCA K UHCH AAAAAAAAAA

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1234567890123456789012345678901234567890123456789012345678901234567890
A7D PUMP, HYDRAULIC 91ACA UHCJA UHCJ A
A7D SWIVEL 91ACB UHCJB UHCJ 5
A7D REGULATOR, FLOW 91ACC UHCJC UHCJ 8
A7D FILTER 91ACD UHCJD UHCJ 0
A7D EMERGENCY PUMP COOLING UHCK UHCJ 888888888
A7D DUMMY 9999K UHCKA UHCK 0
A7DEPP DRIVE UHCL UAP AAAAAAAAAA
A7DEPP DRIVE UHCL UDR AAAAAAAAAA
A7DEPP DRIVE UHCL UHCJ AAAAAAAAAA
A7D TURBINE 91AAA UHCLA UHCL A
A7D SUPPORT ARM ASSY 91ACB UHCLB UHCL A
A7DEPP EXTENSION/RETRACTION UHCM UHCL AAAAAAAAAA
A7D VALVE SELECTOR 91AFA UHCMA UHCM 5
A7D CYLINDER ASSY 91AFB UHCMB UHCM 5
A7D VALVE, RETRACT 91AFH UHCMC UHCM 0
A7D RELAY, EXTENSION K 13 91ACA UHCMD UHCM 1
A7D SWITCH, DOOR 91ACB UHCME UHCM 1
A7D SWITCH, RETRACT 91ACL UHCME UHCM 0
A7DEPP SELECT UHCN UHCM AAAAAAAAAA
A7D HANDLE 91ADA UHCNA UHCN 5
A7D PULLEY 91ADB UHCNB UHCN 5
A7D ACCUMULATOR PRESSURE UHCP K UHB AAAAAAAAAA
A7D ACCUMULATOR PACKAGE 91AFC UHCPA UHCP 1
A7D ACCUMULATOR 91AFF UHCPC UHCP A
A7D VALVE, RELIEF 91AFG UHCPC UHCP 5
A7D PRESSURE BACKUP UHCQ UHCJ 222222222
A7D VALVE, RESERVOIR RELIEF 45CAA UHCQA UHCQ 5
A7D VALVE, SOLENOID SHUTOFF 45CAP UHCQB UHCQ 1
A7D PNEUMATIC PRECHARGE UHCR UHCQ AAAAAAAAAA
A7D PNEUMATIC PRECHARGE GAUGE 45DAB UHCRB DB 1
A7D VALVE, SYSTEM CHARGE 45DAD UHCRC UHCR A
A7D VALVE PACKAGE 45DAA UHCRH UHCR 1
A7D PNEUMATIC PRECHARGE UHCS UHCP AAAAAAAAAA
A7D VALVE, DUMP 91AFF UHCSA UHCS 5
A7D VALVE, PRECHARGE 91AFD UHCSE UHCS 5
A7D PNEUMATIC PRECHARGE GAUGE 45DAB UHCSC DB 1
A7D ACCUMULATOR WARM UHCT UHCP 111111111
A7D BLANKET 91AFA UHCTA UHCT A
A7D ISOLATED HYD PRESS UHD FAGA AAAAAAAAAA
A7D HYDRAULIC PC-Z POWER UHD GAAD AAAAAAAAAA
A7D HYDRAULIC PC-Z POWER UHD GAFB AAAAAAAAAA
A7D ISOLATED PC 2 UHD GC AAAAAAAAAA
A7D UHD LACK AAAAAAAAAA
A7D ISOLATED PC2 DISTRIBUTION UHBL ACC000000
A7D RELAY, DC SEC 42BPK UKJA UDJ A
A7D TRLSY, DC SEC 42F8K UKLC UDL 5

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CARD COUNT IS 00003895. CARDS WITH ERRORS 00000000